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Office of Research and Economic Development, University of Nebraska-Lincoln

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Office of Research and Economic Development

RESEARCH AND CREATIVE ACTIVITY

July 1, 2019 - June 30, 2020

Major Sponsored Programs and Faculty Accomplishments in Research and Creative Activity

University of Nebraska–Lincoln



Bob WilhelmVice Chancellor for Research and Economic Development

This booklet highlights successes in research, scholarship and creative activity by University of Nebraska–Lincoln faculty during the fiscal year running July 1, 2019, to June 30, 2020.

It lists investigators, project titles and funding sources on major grants and sponsored awards received during the year; fellowships and other recognitions and honors bestowed on our faculty; books published by faculty; performances, exhibitions and other creative activity; and patents and licensing agreements issued. Based on your feedback, the Office of Research and Economic Development expanded this publication to include peer-reviewed journal articles and conference presentations and recognize students and faculty mentors participating in the Undergraduate Creative Activities and Research Experience Program (UCARE) and the First-Year Research Experiences program (FYRE).

While metrics cannot convey the full story of our work, they are tangible measures of impact. Nebraska achieved a record \$317 million in total research expenditures in FY 2019, a 26% increase over the past decade. Thanks to your efforts, our university is making progress toward its goal of approaching \$450 million in research expenditures by 2025.

Husker researchers are stimulating economic growth through university-sponsored industry activity. Nebraska Innovation Campus created 1,657 jobs statewide and had a total economic impact of \$324.1 million in FY 2019. NUtech Ventures brought in \$6.6 million in licensing income in FY 2020. The University of Nebraska system now ranks 65th among the top 100 academic institutions receiving U.S. patents, jumping 14 spots from 2019.

I am proud of the Nebraska Research community for facing the challenges of 2020 with grit and determination. Our researchers quickly adapted to develop solutions

for an evolving pandemic — all while working apart and keeping themselves and their families safe. As an institution, we made a commitment to embrace an anti-racism journey and work toward racial equity. Advancing conversations and developing lasting solutions is among the most important work we can do as scholars.

Against the backdrop of the pandemic, rising racial and social tensions, and natural disasters, Nebraska researchers worked diligently to address other pressing issues, such as obesity and related diseases, nanomaterials, agricultural resilience and the state's STEM workforce.

Let's continue looking forward to what we can accomplish together. Thank you for participating in the grand challenges process and helping identify the wicked problems that Nebraska has unique expertise to solve. Soon, ORED will unveil a Research Roadmap that outlines how our campus will develop research expertise; enrich creative activity; bolster commitment to diversity, equity and inclusion; enhance economic development; and much more.

Amidst the uncertainty of 2020, I remain confident in our faculty's talent and commitment. I am pleased to present this record of accomplishments.



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I am proud of the Nebraska
Research community for
facing the challenges of 2020
with grit and determination.

Awards of \$5 Million or More

Active awards, July 1, 2019–June 30, 2020

* Indicates new in 2019-2020

Bevins, Rick

Psychology/ Rural Drug Addiction Research Center

Rural Drug Addiction Research Center

\$11,854,178NIH-NIGMS 4/5/19 - 2/29/24

Khan, BilalSociology/Rural Drug Addiction Research Center Tyler, KimberlySociology/Rural Drug Addiction Research Center



The Rural Drug Addiction Research Center was created in April 2019 as a National Institutes of Health Center of Biomedical Research Excellence, or COBRE. Under the leadership of Rick Bevins, Chancellor's Professor of psychology, the center's mission is to advance understanding of causes, impacts and interventions related to rural drug

addiction in the Midwest, a geographic area that has been historically understudied. Designed to be interdisciplinary and data-driven, the research links pre-clinical studies to field-based behavioral, neural, social, clinical, translational research and dissemination.

Bloom, Kenneth

Physics and Astronomy

U.S. CMS Operations at the LHC \$6,257,263 NSF through Princeton University 1/1/12 – 12/31/21



Ken Bloom, professor of physics and astronomy, coordinates the U.S. contingent of the international research team conducting experiments using the Large Hadron Collider (LHC) at CERN, the European Organization for Nuclear Research in Switzerland. This grant from the National Science Foundation enables the UNL team to support the current High-

Luminosity LHC (HL-LHC) upgrade project.

Brank, Eve

Center on Children, Families and the Law



Eve Brank, professor of psychology and director of the Center on Children, Families and the Law (CCFL), and Kathryn Olson, research assistant professor and assistant director of CCFL, lead this effort to develop and deliver training to child and family services specialists consistent with federal and state statutes and policy. With the support of the Nebraska Department of

Health and Human Services and the Administration for Children and Families in the U.S. Department of Health and Human Services, the program encompasses development and delivery of child protection and safety training for child protection and safety workers in Nebraska.

Cahoon, Edgar

Biochemistry/Center for Biotechnology/ Center for Plant Science Innovation/ Nebraska Center for Redox Biology

Nebraska Center for Redox Biology
RII Track-1: Center for Root and Rhizobiome Innovation (CRRI)
\$10,062,433 NSF-EPSCoR
6/15/16 - 5/31/21
Adamec, JiriBiochemistry/Center for Biotechnology/
Center for Plant Science Innovation/
Nebraska Center for Redox Biology
Clemente, Thomas Agronomy and Horticulture/
Center for Biotechnology/
Center for Plant Science Innovation/
,
Nebraska Center for Redox Biology
Drijber, Rhae Agronomy and Horticulture/
Center for Biotechnology/
Center for Plant Science Innovation/
Nebraska Center for Redox Biology
Griep, Mark
Center for Plant Science Innovation/
Nebraska Center for Redox Biology
Helikar, TomasBiochemistry/Center for Biotechnology/
Center for Plant Science Innovation/
Nebraska Center for Redox Biology
Herr, Joshua Plant Pathology/Center for Biotechnology/
Center for Plant Science Innovation/
Nebraska Center for Redox Biology
Moriyama, Etsuko Biological Sciences/Center for Biotechnology/
Center for Plant Science Innovation/
Nebraska Center for Redox Biology

Russo, Sabrina Biological	Sciences/Center for Biotechnology/
	Center for Plant Science Innovation/
	Nebraska Center for Redox Biology
Schachtman, Daniel	Agronomy and Horticulture/
	Center for Biotechnology/ Center for Plant Science Innovation/
	Nebraska Center for Redox Biology
Schnable James	Agronomy and Horticulture/
	Center for Biotechnology/
	Center for Plant Science Innovation/
	Nebraska Center for Redox Biology
van Dijk, KarinBiod	chemistry/Center for Biotechnology/
	Center for Plant Science Innovation/
	Nebraska Center for Redox Biology
Walia, Harkamal	Agronomy and Horticulture/
	Center for Biotechnology/
	Center for Plant Science Innovation/
M/ L	Nebraska Center for Redox Biology
Weber, Karrie	Biological Sciences/
	Earth and Atmospheric Sciences/
	Center for Biotechnology/
	Center for Plant Science Innovation/ Nebraska Center for Redox Biology
Vu Rin Riological	Sciences/Center for Biotechnology/
	Center for Plant Science Innovation/
	Nebraska Center for Redox Biology
Zhana, Chi Biological	Sciences/Center for Biotechnology/
	Center for Plant Science Innovation/
	Nebraska Center for Redox Biology



The University of Nebraska–Lincoln is leading a \$20 million, Nebraska-based research effort to improve crop productivity. Funded with a five-year award from the National Science Foundation's Established Program to Stimulate Competitive Research, or EPSCoR, this project draws upon a range of expertise in Nebraska. The university is teaming with scientists at the

University of Nebraska Medical Center, University of Nebraska at Kearney and Doane University on the Center for Root and Rhizobiome Innovation. Project leader is Edgar Cahoon, George Holmes Professor of biochemistry and director of the Center for Plant Science Innovation. The research uses a holistic strategy to study root and soil microbe interactions and to develop new biological tools to enhance crop performance.

Graef, Michelle

Center on Children, Families and the Law



The University of Nebraska-Lincoln has launched the Quality Improvement Center for Workforce Development with a five-year, \$15 million grant to the Center on Children, Families and the Law from the U.S. Department of Health and Human Services Administration for Children and Families-Children's Bureau. Under the leadership of Michelle Graef,

associate professor in the Center on Children, Families and the Law, this multidisciplinary project studies and tests promising strategies to help child welfare agencies recruit and retain staff workers. Nebraska collaborates with three national child welfare consultants and researchers at the University of Colorado, Denver; University of Louisville; and University of Tennessee, Knoxville. The center draws on a range of expertise, including social work, industrial organizational psychology, human resource management, educational psychology, implementation science and the law.

Heng-Moss, Tiffany

College of Agricultural Sciences and Natural Resources



With grants totaling more than \$47,000,000, the College of Agricultural Sciences and Natural Resources (CASNR) at the University of Nebraska-Lincoln is partnering with various associations and foundations to provide educational opportunities for Rwandan students to participate in the CASNR Undergraduate Scholars Program (CUSP). In support of a

Practical Agriculture Institute in Rwanda, Rwandan students are identified and selected to participate in CUSP to pursue a Bachelor of Science degree in integrated science – an individualized program of study focused on conservation agriculture, entrepreneurship, leadership and innovative thinking. The students' degree programs are specifically designed to be relevant to Rwandan agricultural production and the country's goal of building resilience into its agricultural ecosystems. CASNR dean Tiffany Heng-Moss leads this effort.

Moxley, Rodney Veterinary Medicine and Biomedical Sciences



Rodney Moxley, Charles Bessey Professor of veterinary medicine and biomedical sciences, leads a major project involving 12 universities and other institutions to target eight of the most dangerous *E. coli* strains throughout the beef production chain. Funded by a \$25 million Agriculture and Food Research Initiative grant from the U.S. Department of Agriculture's

National Institute of Food and Agriculture, the project's long-term goal is to reduce the occurrence and public health risks from Shiga toxin-producing *E. coli* in beef, while preserving an economically viable and sustainable beef industry. The project explores the public health, economic and environmental impacts of existing or new intervention strategies on predicted and actual STEC exposure risk. Innovative education, extension and evaluation efforts are intertwined with research on beef chain STEC risk mitigation and decreased numbers of human STEC cases.

Rilett, Laurence

Civil and Environmental Engineering/ Nebraska Transportation Center



The Mid-America Transportation Center, a consortium of academic institutions led by the University of Nebraska–Lincoln, leads a five-year, \$13 million research center, funded by the U.S. Department of Transportation through the Fixing America's Surface Transportation Act, to improve transportation safety in Nebraska and neighboring states. The center,

which emphasizes challenges facing rural areas and underserved communities, was designated the University Transportation Center of its four-state region after a competitive review. Laurence Rilett, MATC director and the Keith W. Klaasmeyer Chair in engineering, leads the research center. Funding enables MATC to leverage its track record of success in transportation research and education to improve safety in the four Region 7 states: Nebraska, lowa, Kansas and Missouri. MATC is housed in the university's College of Engineering. Its partner institutions include the University of Nebraska at Omaha, University of Nebraska Medical Center, University of Iowa, University of Kansas, University of Kansas Medical Center, Missouri University of Science and Technology, Lincoln University and Nebraska Indian Community College. The consortium also has partnerships with several private-and public-sector entities, including a longstanding relationship with the Nebraska Department of Transportation.

Schachtman, Daniel

Agronomy and Horticulture/ Center for Plant Science Innovation/ Center for Biotechnology

Systems Analysis of the Physiological and Molecular Mechanisms of Sorghum Nitrogen Use Efficiency, Water Use Efficiency and Interactions with the Soil Microbiome



Daniel Schachtman, George Holmes Professor of agronomy and horticulture and director of the university's Center for Biotechnology, leads a \$13.5 million, multi-institutional research effort to improve sorghum as a sustainable source for biofuel production. A five-year grant from the U.S. Department of Energy funds this highly collaborative project that takes a

comprehensive approach to understanding how plants and microbes interact and to learn which sorghum germplasm can grow with less water and nitrogen. The University of Nebraska–Lincoln is collaborating with scientists at Danforth Plant Science Center, Washington State University, University of North Carolina-Chapel Hill, Boyce Thompson Institute, Clemson University, Iowa State University, Colorado State University and the DOE-Joint Genome Institute.

Takacs, James

Chemistry/Nebraska Center for Integrated Biomolecular Communication

Nebraska Center for Integrated Biomolecular Communication (NCIBC)

(110)	100)
\$11,038,329	NIH-NIGMS
8/15/16 - 7/31/21	
Becker, Donald	Biochemistry/NCIBC
Buan Murphy, Nicole	Biochemistry/NCIBC
Cerny, Ronald	
Clarke, Jennifer Statistics/Fo	od Science and Technology/NCIBC
DiRusso, Concetta	Biochemistry/NCIBC
Dodds, Eric	
Hage, David	Chemistry/NCIBC
Harris, Edward	Biochemistry/NCIBC
Kidambi, Srivatsan Chemical and	d Biomolecular Engineering/NCIBC
Lee, Jaekwon	Biochemistry/NCIBC
Morton, Martha	Chemistry/NCIBC
Powers, Robert	Chemistry/NCIBC
Riethoven, Jean-Jack	
Stains, Clifford	Chemistry/NCIBC
Velander, WilliamChemical and	Biomolecular Engineering/NCIBC
Zhou, You	Center for Biotechnology/NCIBC



With a five-year, \$11 million grant from the National Institutes of Health, the University of Nebraska–Lincoln has established a research center focused on investigating cellular-level miscommunications that contribute to complex diseases like cancer, diabetes and chronic liver disease. The NCIBC serves as a hub for interdisciplinary collaborations among

Nebraska's biomedical researchers and involves faculty at the University of Nebraska Medical Center, as well. The center, directed by James Takacs, Charles J. Mach University Professor of chemistry, fosters a systems approach, combining the research activities of chemists, biochemists, engineers and bioinformaticists. It connects researchers developing new molecular probes and analytical techniques with those unraveling molecular mechanisms of diseases.

Tsymbal, Evgeny

Physics and Astronomy/ Nebraska Center for Materials and Nanoscience

Materials Research Science and Engineering Center: Polarization and Spin



The Materials Research Science and Engineering Center (MRSEC) was established in 2002 with a grant from the National Science Foundation and involves scientists from the Departments of Physics and Astronomy, Chemistry, Mechanical & Materials Engineering, and the School of Biological Sciences. MRSEC projects focus on

fabricating and studying new magnetic structures and materials at the nanometer scale. The research has applications in advanced computing and data storage, handheld electronic devices, advanced sensors and future medical technologies.

Walia, Harkamal

Agronomy and Horticulture



Harkamal Walia, associate professor of agronomy and horticulture, leads a project to explore the effects of high nighttime temperatures on wheat and rice. Temperature stress can lead to severe losses in the yield and quality of crops, especially wheat and rice, two major cereal crops worldwide. With the support of a \$5.78 million grant from the

National Science Foundation's Established Program to Stimulate Competitive Research (EPSCoR), Walia's team is investigating genes and genetic variants in wheat and rice to identify genetic markers and physiological characteristics tied to heat tolerance. The team also collaborates with researchers from Arkansas State University and Kansas State University.

Wilhelm, Bob Office of Research and Economic Development

Nebraska Center for Energy Sciences Research \$6,250,000...... Nebraska Public Power District 4/1/16 – 3/31/21

The Nebraska Center for Energy Sciences Research is a collaboration between the university and the Nebraska Public Power District. The center was established in April 2006 to support energy research that produces new technologies, processes and systems that provide new or significantly enhanced renewable energy sources, improves the quality of life and boosts economic opportunity. The center fosters interdisciplinary collaboration among Nebraska faculty and with other research institutions, public-sector agencies and private-sector companies with similar interests. The center supports both basic and applied research and has a broad mandate to explore a range of renewable energy opportunities (including biofuels, wind and solar energy), as well as opportunities for energy conservation.

Yoder, Ron Institute of Agriculture and Natural Resources

Rwandan Institute of Conservation Agriculture (RICA)
\$17,210,366 Various Sources
10/13/17 - 12/31/20
Davis, Josh Global Affairs
Heng-Moss, TiffanyCollege of Agricultural Sciences
and Natural Resources



The Rwanda Institute for Conservation Agriculture (RICA) is a unique and innovative English language institution dedicated to preparing the next generation of agricultural leaders of Rwanda and East Africa. Under the leadership of Ron Yoder, senior associate vice chancellor for IANR, the University of Nebraska is serving as a critical academic

partner, helping to design and implement the curriculum and campus operations, especially during RICA's critical start-up phase. RICA students will learn the principles of conservation agriculture and One Health while emphasizing written communication, leadership and entrepreneurship. Students at RICA will be exposed to six different enterprises including beef cattle and small ruminants, dairy, poultry and swine, row and forage crops, vegetable and tree crops, irrigation and mechanization.

Zempleni, Janos

Nutrition and Health Sciences/ Nebraska Center for the Prevention of Obesity Diseases through Dietary Molecules

COBRE: Nebraska Center for the Prevention of



With the support of an \$11.6 million grant from the National Institutes of Health's Center of Biomedical Research Excellence (COBRE) program, the university has established the Nebraska Center for the Prevention of Obesity Diseases through Dietary Molecules. The center, under the leadership of Janos Zempleni, Willa Cather Professor of molecular

nutrition, focuses on understanding nutrition and obesity at the molecular level. Answering molecular-level questions regarding obesity and related diseases is a crucial first step toward curbing this national epidemic. The University of Nebraska Medical Center collaborates on the center, which aims to establish a community of nationally recognized researchers in nutrition, genetics, biochemistry, food science, immunology and computer science. The long-term goal is to become a leader in nutrient signaling and the prevention of obesity and obesity-related diseases, including non-alcoholic fatty liver disease, cardiovascular disease and Type 2 diabetes.

Awards of \$1 Million to \$4,999,999

Active awards, July 1, 2019–June 30, 2020

Allen, Craig Natural Resources NRT-INFEWS: Training in Theory and Application of Cross-scale Resilience in Agriculturally Dominated Social Ecological Systems \$2,998,886				
Allmand, Matthew Extension/Biological Systems Engineering/Food Science and Technology Manufacturing Extension Partnership Center for Nebraska \$1,350,000				
Balkir, Sina Electrical and Computer Engineering Low-Power Signal-Processing Electronics for Unattended Radiation Monitoring Sensors \$1,060,772				
Barlow, Steven Special Education and Communication Disorders Somatosensory Modulation of Salivary Gene Expression and Oral Feeding in Preterm Infants \$2,797,503				
Communication Disorders Somatosensory Modulation of Salivary Gene Expression and Oral Feeding in Preterm Infants				
Somatosensory Modulation of Salivary Gene Expression and Oral Feeding in Preterm Infants \$2,797,503				

	Psychology onditioning with Nicotine: Changes in Abuse LiabilityNIH-NIDA			
Bilder, Christopher Group Testing for Infectious Disease Detection: Multiplex Assays and Back-End Screening				
\$1,137,836	NIH-NIAID			
Binek, Christian	Physics and Astronomy/Nebraska Center for Materials and Nanoscience			
\$3,494,096 Lai, Rebecca Liou, Sy-Hwang Sellmyer, David	Nebraska Nanoscale Facility of NNCI			
	Nebraska Center for Materials and Nanoscience			
Bloom. Kenneth	Physics and Astronomy			
Bloom, Kenneth \$2,280,837	Physics and Astronomy Open Science Grid Consortium NSF through University of Wisconsin-Madison			
\$2,280,837	Open Science Grid Consortium			
\$2,280,837	Open Science Grid Consortium NSF through University of Wisconsin-Madison SI2-SSI Data Intensive Analysis for High Energy Physics (DIANA/HEP)			
\$2,280,837 \$1,001,324 Bobaru, Florin	Open Science Grid Consortium NSF through University of Wisconsin-Madison SI2-SSI Data Intensive Analysis for High Energy Physics (DIANA/HEP)			
\$2,280,837 \$1,001,324 Bobaru, Florin \$1,016,131 Centurion, Martin	Open Science Grid Consortium NSF through University of Wisconsin-Madison SI2-SSI Data Intensive Analysis for High Energy Physics (DIANA/HEP)			
\$2,280,837 \$1,001,324 Bobaru, Florin \$1,016,131 Centurion, Martin	Open Science Grid Consortium NSF through University of Wisconsin-Madison SI2-SSI Data Intensive Analysis for High Energy Physics (DIANA/HEP)			

^{*} Indicates new in 2019-2020

Clemente, Thomas	Agronomy and Horticulture/	Dowben, Peter	Physics and Astronomy/Nebraska	
	Center for Plant Science Innovation		Center for Materials and Nanoscience	
	FEC: Functional Analysis		E2CDA: Type I: Antiferromagnetic Magneto-electric	
	ponsive Networks in Sorghum		Memory and Logic	
	NSF-EPSCoR through	\$3,573,423	NSF/Semiconductor Research Corp	
	HudsonAlpha Institute for Biotechnology	Binek, Christian	Physics and Astronomy/Nebraska	
Ge, Yufeng	Biological Sciences/		Center for Materials and Nanoscience	
	Center for Plant Science Innovation	Sinitskii, Alexander	Chemistry/Nebraska	
Schnable, James	Agronomy and Horticulture/		Center for Materials and Nanoscience	
	Center for Plant Science Innovation	Isymbal, Evgeny	Physics and Astronomy/Nebraska	
Yang, Jinliang	Agronomy and Horticulture/ Center for Plant Science Innovation		Center for Materials and Nanoscience	
		Duppong Hurley, Kristin	Special Education and	
	lioenergy and Bioproducts Innovation		Communication Disorders	
\$3,886,388	DOE through		s: An Efficacy Study of Peer Support	
Cabaaa Eduan	University of Illinois-Urbana-ChampaignBiochemistry/		School Youth with Emotional Disturbance	
Canoon, Eagar	Center for Plant Science Innovation		ED-IES	
	Center for Flant Science innovation	Torkelson-Trout, Alexandra	a Special Education and	
Bully Ed	Pilos of and Barrela land		Communication Disorders	
Daly, Ed	Educational Psychology/			
	Nebraska Center for Research on	Dzenis, Yuris	Mechanical & Materials Engineering	
	Children, Youth, Families and Schools		ection for the Femoropopliteal Artery	
School Psychol	ogy Specialization in Toddlers		NIH-NHLBI through UNMC	
with Auti	ism Spectrum Disorders ED	Desyatova, Anastasia	Mechanical & Materials Engineering	
\$1,249,730	ED			
Determine Consists	Onesetes Oniones and Funionesian		Teaching, Learning and Teacher Education	
Detweiler, Carrick	Computer Science and Engineering		oots Teacher Education Program	
in Compl	ed Aerial Systems (UAS) Fire Ignitions ex Firefighting Contexts	\$1,174,067	ED	
	NSF	Erixson, John	Nebraska State Forest Service	
Allen, Craig	Natural Resources		erative Forestry Program	
Bradley, Justin	Computer Science and Engineering		USDA-FS	
	Computer Science and Engineering	ψ 1,000,030 11111111111111111111111111111		
	Public Policy Center Agronomy and Horticulture	Faller, Ronald	Midwest Roadside Safety Facility/	
Twidwell, Dirdc Jr	Agronomy and Horticulture	Talici, Hollara	Nebraska Transportation Center	
Doddo Frio	Chamiatry	*Crash Testing of Various	Bridge Guardrails and Transitions, Phase II	
Dodds, Eric	Chemistry		Hawaii Dept of Transportation	
	Advancing Biomedical Glycoproteomics		Midwest Roadside Safety Facility	
\$1,999,597	NIH-NIGMS		Midwest Roadside Safety Facility	
5 1 1			Midwest Roadside Safety Facility	
Dombrowski, Kirk	Sociology	Rasmussen, Jennifer	Midwest Roadside Safety Facility	
	Networks in Rural Puerto Rico	Reid, John	Mechanical & Materials Engineering	
	NIH-NIDA	Rosenbaugh, Scott	Midwest Roadside Safety Facility	
Knan, Bilal	Sociology	Song, Chung	Civil and Environmental Engineering	
		Steelman, Joshua	Civil and Environmental Engineering	
		Stolle, Cody	Midwest Roadside Safety Facility	

*Low-Cost, Sacrificial, Energy-Absorbing, Crash Cushion \$1,072,614	Garcia Ruiz, Hernan Plant Pathology/ Nebraska Center for Virology
Bielenberg, RobertMidwest Roadside Safety Facility Holloway, JimMidwest Roadside Safety Facility	Recognition and Recruitment of RNA Viruses
Lechtenberg, Karla Midwest Roadside Safety Facility Rasmussen, Jennifer Midwest Roadside Safety Facility	into RNA Silencing Pathways \$1,312,105NIH-NIGMS
Rosenbaugh, ScottMidwest Roadside Safety Facility Stolle, CodyMidwest Roadside Safety Facility	Gervais, Sarah Psychology Integrating Alcohol Myopia and Objectification
Midwest States Pooled Fund Roadside Safety Program Year 29	to Understand Sexual Assault
\$1,235,000	\$1,097,073
Bielenberg, RobertMidwest Roadside Safety Facility/ Nebraska Transportation Center	Dodd, Michael
Lechtenberg, KarlaMidwest Roadside Safety Facility/ Nebraska Transportation Center	Graef, George Agronomy and Horticulture
Rasmussen, Jennifer Midwest Roadside Safety Facility/ Nebraska Transportation Center	*Increasing Genetic Diversity, Yield, and Protein of U.S. Commercial Soybean Germplasm
Rosenbaugh, ScottMidwest Roadside Safety Facility/ Nebraska Transportation Center	\$1,429,751
Stolle, CodyMidwest Roadside Safety Facility/ Nebraska Transportation Center	Hyten, David Jr Agronomy and Horticulture
·	Grassini, Patricio Agronomy and Horticulture
Fischer, Jean Nutrition and Health Sciences	Developing Solutions for Closing the Yield Gap
Supplemental Nutrition Assistance Program (SNAP-ED) \$1,822,398	in Smallholder Oil Palm Plantations in Indonesia \$4,246,035 Norwegian Ministry of Foreign Affairs
Nebraska Department of Health and Human Services Behrends, Donna Nutrition and Health Sciences	Guo, Jiantao Chemistry
Franzen-Castle, Lisa Nutrition and Health Sciences	Improve the Safety of an Efficacious Live-Attenuated
Johnson, Mary Ann	HIV-1 Vaccine Through Unnatural Amino Acid-Mediated Suppression of Blank Codon
Wielenga, VanessaNutrition and Health Sciences	\$1,919,552NIH-NIAID Li, QingshengBiological Sciences
Fontaine, Joseph Assessing the Effects of Habitat Incentive Programs and	Niu, Wei
Public Access Programs on Pheasant Population Dynamics and Hunter Harvest	Catalytic Asymmetric Hydroboration: Uncapping the Potential with Two-point Binding Substrates
\$1,989,522	\$1,232,002NIH-NIGMS
Foggia, Jennifer Natural Resources	Hage, David Chemistry
Reed, Tyler	Chromatographic Studies of Functional Proteomics \$1,075,264
Forbes, Cory Natural Resources	\$ 1,07 3,204NII I-NIDDK
DRK-12 High School Students Climate Literacy Through Epistemology of Scientific Modeling	Harris, Edward Liver-Mediated Clearance of Low Molecular Weight Heparins
\$1,136,602NSF	\$1,486,339

Harwood, David Earth and Atmospheric Sciences/	Houston, Adam Earth and Atmospheric Sciences
Antarctic Drilling Program	RII Track-2 FEC: Unmanned Aircraft System
SALSA Project Hot Water Drill Operations with	for Atmospheric Physics
WISSARD Main Drill and Parts of UNL Roving Drill (Prime Mover)	\$1,454,757NSF through Oklahoma State University
\$1,569,112 NSF through Dartmouth College	Detweiler, Carrick Computer Science and Engineering
McManis, James	Pytlik Zillig, Lisa
Hebert, Michael Special Education and Communication Disorders/	
Nebraska Center for Research on	Irmak, Suat Biological Systems Engineering
Children, Youth, Families and Schools	Measurement of Growing Season Actual Crop
Project VIEW: Visual Impairments Education in Writing	Evapotranspiration and Crop Coefficients, and Dormant
\$1,399,158	Season Evaporative Losses for Key Vegetation Surfaces
Bovaird, JamesEducational Psychology/	in the Central Platte Natural Resources District
Nebraska Center for Research on	\$1,409,675 Central Platte NRD
Children, Youth, Families and Schools	
Koziol, Natalie Nebraska Center for Research on	Jacobson, Beth Student Affairs
Children, Youth, Families and Schools	UNL Educational Talent Search
Savaiano, MackenzieSpecial Education and Communication Disorders/	\$2,415,857ED
Nebraska Center for Research on	Johnson, Matthew Psychology/
Children, Youth, Families and Schools	Center for Brain, Biology and Behavior
	RII Track-2 FEC: Neural Networks Underlying the Integration
Helikar, Tomas Biochemistry	of Knowledge and Perception
Innovating Life Sciences Education	\$1,187,504 NSF through University of Delaware
Through Computational Modeling and Simulations	Dodd, Michael
\$1,896,570NSF	Center for Brain, Biology and Behavior
Dauer, Joseph	
Smith, WendyCenter for Science, Mathematics	Khalimonchuk, Oleh Biochemistry/
and Computer Education	Nebraska Center for Redox Biology
A Predictive Multi-Scale Model of the Immune System:	Mitochondrial Fidelity and Homeostasis
An Integrated Resource for Interdisciplinary Applications	\$1,846,766NIH-NIGMS
\$2,025,567NIH-NIGMS	
Ψ2,023,307 · · · · · · · · · · · · · · · · · · ·	Mechanisms of Mitochondrial Quality Control and Protection
An Innovative Computational Modeling Intervention	\$1,421,695NIH-NIGMS
to Facilitate Learning of Biology Using	
Simulation and Dynamical Systems Approaches	Kievit, Forrest Biological Systems Engineering
\$2,321,012NSF	*Nanoparticle-Mediated Reduction of Oxidative Stress
Brassil, ChadBiological Sciences	for the Treatment of Traumatic Brain Injury
Dauer, Joseph Natural Resources	\$2,216,406
Harris, StevenPlant Pathology	

Knoche, Lisa	Nebraska Center for Research on	Lei, Yuguo	Chemical and Biomolecular Engineering
	Children, Youth, Families and Schools	(A Single Conical Tube Device
	3 (GR03): Supporting the Development of		Precision CAR-T Cells Manufacturing
	s Through an Integrated Parent-Teacher		NIH-NCI
	lationship-Based Approach	Viljoen, Hendrik	Chemical and Biomolecular Engineering
	DHHS-ACF		Statistics
	Educational Psychology	Zhang, Chi	Biological Sciences
Marvin, Christine	Special Education and		
	Communication Disorders/	Lewis, Jim	Center for Science, Mathematics
	Nebraska Center for Research on		and Computer Education/Mathematics
	Children, Youth, Families and Schools	*Educa	ting Undergraduate Students for STEM
Sheridan, Susan	Nebraska Center for Research on		Opportunities in Nebraska: Networks,
	Children, Youth, Families and Schools		ial Learning, and Computational Thinking
Kravchenko, Ilya	Physics and Astronomy		Mathematics
	rns from the CMS Experiment: Analysis of		Computer Science and Engineering
	Preparation for the High-Luminosity LHC	Goodburn, Amv	Executive Vice Chancellor and
	NSF	, , , , , ,	Chief Academic Officer
	Physics and Astronomy	Radu. Petronela	Mathematics
	Physics and Astronomy		Computer Science and Engineering
	, ,	Smith, Wendy	Center for Science, Mathematics
Particle Physics Res	search with the CMS Experiment at the LHC	, , , , , , , , , , , , , , , , , , , ,	and Computer Education
	NSF	Soh, Leen-Kiat	Computer Science and Engineering
	Physics and Astronomy	,	1 3 3
	Physics and Astronomy	Li, Qingsheng	Biological Sciences/
Looktonhora Vorlo	Midwest Roadside Safety Facility		Nebraska Center for Virology
	MASH-1: MASH 2016 Safety Facility	Next Ger	neration Broadly Neutralizing Antibodies
		¢4 506 700	to Clear HIV-1 Reservoir
	aluations - Phase I System C1 and C3DOT-NYDOT through		NIH-NIAID through University of Maryland
- " - "	Nebraska Department of Transportation	Li, Xu	Civil and Environmental Engineering
Faller, Konald	Midwest Roadside Safety Facility	Mitigating the Risk	k of Antibiotic Resistance at Critical Control Points
Holloway, Jim	Midwest Roadside Safety Facility		ef Cattle Manure Management Systems
Rasmussen, Jennifer .	Midwest Roadside Safety Facility	\$1,200,000	
Song, Chung	Civil and Environmental Engineering	Bartelt-Hunt, Shanr	nonCivil and Environmental Engineering
	Civil and Environmental Engineering		Animal Science
Stolle, Cody	Midwest Roadside Safety Facility	Schmidt, Amy	Animal Science/Biological Systems Engineering
		Wang, Bing	Food Science and Technology
Lehn, Joyce	Student Affairs		
	ent Support Services Program	Lu, Yongfeng	Electrical and Computer Engineering
\$2,647,468	ED	3D-Prin	nting of Diamond-Composite Structures sing Selective Laser Semi-Melting
			DoD-MDA
		Portable Fib	er Laser System and Method to Remove Pits
			on Sensitized Surfaces of Aluminum Alloys
		\$1,975,000	

Lubben, Bradley North Central Risk Manage \$4,152,528		Namkung, Jessica	Special Education and Communication Disorders/ Nebraska Center for Research on Children, Youth, Families and Schools
MacDonald, James Enhancing Animal Protein Th \$1,000,000 Foundation for Awada, Tala	or Food and Agriculture Research	Underlying Pre-A Without Mat \$1,399,534	Algebra Among Students With and thematics Learning Difficulties Learning Difficulties ED-IES Nebraska Center for Research on Children, Youth, Families and Schools Nebraska Center for Research on Children, Youth, Families and Schools Children, Youth, Families and Schools Center for Science, Mathematics and Computer Education/ Nebraska Center for Research on
Mahmood, Rezaul	Natural Resources		Children, Youth, Families and Schools
High Plains Regional \$3,531,430 Sorensen, William Stiles, Crystal Umphlett, Natalie	Climate Center	Napolitano, Scott School Psycholo	Educational Psychology/ Center for Brain, Biology and Behavior/ Nebraska Center for Research on Children, Youth, Families and Schools ogy Specialization in Concussion/
McQuillan, Julia *Worlds of Connections: Engaging	Sociology g Youth with Health Research	\$1,191,884	umatic Brain Injury (mTBI)ED
Through Network Science and S \$1,235,707 Diamond, Judy Unive Spiegel, Amy Syron, Colleen Wonch Hill, Trish	tories in Augmented RealityNIH-NIGMS ersity of Nebraska State MuseumSocial and Behavioral Science Research ConsortiumArt, Art History and Design	\$2,443,777	Psychology/ Center for Brain, Biology and Behavior and Adolescent Weight TrajectoriesNIH-NIDDK slogy/Center for Brain, Biology and BehaviorResearch and Economic Development/ Center for Brain, Biology and Behavior
Meiklejohn, Colin Investigating the Special Role of Se Discovering the Molecular Identitie Histories of X-Linked Hybrid Male \$1,298,165	Biological Sciences x Chromosomes in Speciation: es, Functions, and Evolutionary Sterility Genes in <i>Drosophila</i> NIH-NIGMS	and (\$1,301,978	Control in Adolescent Substance Use Co-occurring Problems
Mendoza-Gorham, Joan Lincoln Upwa \$1,511,785			Center for Brain, Biology and Behavior
Upward Bound Math			
\$1,511,785			

Neta, Maital Psycholo	gy/ Rajca, Andrzej Chemistry
Center for Brain, Biology and Beha	
Functional Brain Networks Mediating	Measurements in Biological Systems
Individual Differences in Valence Bias	\$1,745,253
\$1,826,454NIH-NI	MA Rajca, Suchada Chemistry
Ngoko Djiokap, Jean Marcel Physics and Astrono	mv Synthesis of Metal-Free Magnetic
Dynamics of Few-Body Atomic Processes	Resonance Imaging Contrast Agents
\$2,565,804	OE \$1,208,299
	kajca, Suchada Chemistry
Nugent, Gwen Nebraska Center for Researcl Children, Youth, Families and Scho	
Testing the Efficacy of INSIGHTS for Promoting Positive	Nebraska Water Center/
Learning Environments and Academic Achievement in Nebrasko	Robert B. Daugherty Water for Food Institute
A Replication Study	Securing Water for and from Agriculture Through Effective
\$3,299,957 ED	ES Community and Stakeholder Engagement
Bovaird, JamesEducational Psychology	
Nebraska Center for Research on Child Youth, Families and Sch	
Sheridan, Susan Educational Psychology/Nebraska Center	
Research on Children, Youth, Families and Scho	
	Fulginiti, Lilyan Agricultural Economics/
Olson, Kathryn Center on Children, Families and the	Robert B. Daugherty Water for Food Institute
*New Worker Pre-Service Training in the Eastern Service Area	Groskopf, Jessica Panhandle Research and Extension Center/ Robert B. Daugherty Water for Food Institute
(Douglas and Sarpy Counties)	
\$1,473,248 DHHS-ACF thro Nebraska Department of Health and Human Serv	9" 51 .55 1 . 17. (5 11)
Brank, Eve Center on Children, Families and the	Rudnick, Daran West Central Research and Extension Center
, , , , , , , , , , , , , , , , , , , ,	Robert B. Daugherty Water for Food Institute
Pannier, Angela Biological Systems Engineer	Weigle, Jason Southeast Extension Center
Using Cell Priming and Telecommunications Modeling to	Savaiano, Mackenzie Special Education and
Enhance Gene Delivery for Stem Cell Therapies (DP2)	Communication Disorders
\$2,332,072NIH-N	*Mid-Plains Professional Upgrade Partnership - Visual Impairment
Dogg Mark Natural Daggur	¢1162 200
Pegg, Mark Natural Resour Missouri River Sportfish Ecology and Management	Caruso, EricSpecial Education and Communication Disorders
\$1,324,787Nebraska Game and Parks Commiss	
Hamel, Martin Natural Resour	
	Thomas, AnneSpecial Education and Communication Disorders
Pope, Kevin Natural Resour	es
Human Dimensions of Nebraska's Fisheries	
\$1,747,225	
Nebraska Game and Parks Commiss Chizinski, ChristopherNatural Resour	
Cinzinoki, Ciniotopher	

Schnable, James	Agronomy and Horticulture/ Center for Plant Science Innovation	Early L	earning Network LeadED
Targeted Ger	ne, and (C)rop Growth (M)odel-Directed ne Characterization in Sorghum	Knoche, Lisa	Nebraska Center for Research on Children, Youth, Families and Schools
\$2,675,039		Sinitskii, Alexander *DNA-Engbled Hierard	Chemistry hical Assembly of Graphene Electronics
Sigmon, Brandi	Plant Pathology/ Center for Plant Science Innovation	\$4,499,998	DoD-ONR
\$1,525,215 Do Haugerud, Rick	Computer Science and Engineering yber Situational Awareness Research: apability Exploration D-Offutt Air Force Base-STRATCOM through National Strategic Research Institute	A Statewide Implemento Partnership for I \$2,000,000 Nugent, Gwen	Center for Science, Mathematics and Computer Education/ Computer Science and Engineering ent and Research at Nebraska: ation Study of a Researcher-Practitioner K-8 Computer Science Education
Sellmyer, David Studies of Artifici	Physics and Astronomy/Nebraska Center for Materials and Nanoscience ally Structured Composite Magnets	Trainin, Guy	and Computer Education Teaching, Learning and Teacher Education
	DOE	Speck, Kate Nebraska Youtl	Public Policy Center h Suicide Prevention 2019-2024
Sheridan, Susan	Educational Psychology/ Nebraska Center for Research on Children, Youth, Families and Schools/ Buffett Early Childhood Institute	Bulling, Denise	
\$4,599,878	ntexts in Rural and Urban Nebraska	and Lead (UNVEIL): / Advance Genome-to \$1,856,000	Biological Sciences Natural Variation to Educate, Innovate, A Collaborative Research Network to o-Phenome Connections in the Wild NSF through University of MontanaBiological SciencesBiological Sciences
Knoche, Lisa	Buffett Early Childhood Institute Nebraska Center for Research on Children, Youth, Families and Schools/ Buffett Early Childhood Institute	Adaptive Evol \$1,437,536 Sun, Xinghui	ution of Hemoglobin FunctionNIH-NHLBI Biochemistry
with Latino \$3,499,987	Conjoint Behavioral Consultation (CBC) Students: A Replication Study	Endothelial Sen \$1,955,473	NA Meg3 in Obesity-Induced escence and Insulin Resistance

Children, Youth, Families and Schools

Exploring and Emb in Atomically Thi \$1,238,000	Electrical and Computer Engineering racing Heterogeneity in Energy Materials
Sutter, Eli	Mechanical & Materials Engineering
The National Drou	Natural Resources ation Services for the Nation: ght Mitigation Center
Bathke, Deborah	
	Mechanical & Materials Engineering r Acute Respiratory
Distress Syndrom \$1,259,336 DoD-Offut	e (ARDS) Maturation t Air Force Base-STRATCOM through National Strategic Research Institute
	ng, Learning and Teacher Education/ Nebraska Center for Research on hildren Youth Families and Schools
C Nebraska STEM: Supporting Ele \$1,499,493	Nebraska Center for Research on hildren, Youth, Families and Schools mentary Rural Teacher LeadershipNSF
C Nebraska STEM: Supporting Ele \$1,499,493	Nebraska Center for Research on hildren, Youth, Families and Schools mentary Rural Teacher Leadership
Nebraska STEM: Supporting Ele \$1,499,493	Nebraska Center for Research on hildren, Youth, Families and Schools amentary Rural Teacher Leadership
Nebraska STEM: Supporting Ele \$1,499,493	Nebraska Center for Research on hildren, Youth, Families and Schools mentary Rural Teacher Leadership
Nebraska STEM: Supporting Ele \$1,499,493	Nebraska Center for Research on hildren, Youth, Families and Schools mentary Rural Teacher Leadership

Soh, Leen-Kiat
Thomas, Anne Special Education and Communication Disorders *Mid-Plains Professional Upgrade Partnership: Interdisciplinary Preparation in Deaf Education and Speech-Language Pathology \$1,052,376
Thompson, Laura *Promoting Adoption of Innovative Precision Ag Nitrogen Management Technologies Through the Nebraska On-Farm Research Network for Improved Conservation Stewardship \$1,267,747

Torkelson-Trout, Alexandra	Special Education and	Van Etten, James	Plant Pathology/
a a a dame	Communication Disorders/	I	Nebraska Center for Virology
	y for Child and Family Wellbeing		FEC: G2P in VOM:
*Fostering Education	onal Success:		nd Analytical Framework for
Reconnecting Families, E			onnections in Viruses of Microbes
\$3,994,908			NSF through University of Delaware
Duppong Hurley, Kristin		DeLong, John	Biological Sciences/
A	Communication Disorders/	Dominson Domid	Nebraska Center for VirologyPlant Pathology/
	y for Child and Family Wellbeing	Dunigan, Davia	Nebraska Center for Virology
Huscroft-D'Angelo, Jacqueline	Communication Disorders/		Nebraska Center for Virology
A a a dame.	y for Child and Family Wellbeing	Wasan Wana	and the state of t
Academy	for Child and Family Wellbeing		aching, Learning and Teacher Education
A Missing Link to a Be	atter Temerrows		r Multilingual Excellence in Education
Developing Health Literacy in		\$2,739,661	ED
with High Incidence			aching, Learning and Teacher Education
\$1,499,994			aching, Learning and Teacher Education
Duppong Hurley, Kristin	Special Education and	Kıramba, Lydiahled	aching, Learning and Teacher Education
Euppoing Franco, Kilotin	Communication Disorders/		
Academy	y for Child and Family Wellbeing	Walters, Cory	Agricultural Economics
Lambert, Matthew			nal Farm Business Management
,,,	Communication Disorders/	and Benchr	marking Partnership
	y for Child and Family Wellbeing	\$1,322,060	USDA-NIFA
,	, ,	Banerjee, Simanti	Agricultural Economics
Twidwell, Dirac Jr.	Agronomy and Horticulture	Weaver, Eric Biological	Sciences/Nebraska Center for Virology
*RII Track-2 FEC: Resilience Informa			a Universal Flu Vaccine Using TMV-
Critical Capacities to Address Region			Centralized Antigens
\$3,953,265		\$3 220 833	NIH-NIAID
Allen, Craig		\$3,223,033	NIT-NIAID
Banerjee, Simanti		West John	Nebrooks Center for Vivoleny
Uden, Daniel	Agronomy and Horticulture	West, John	Nebraska Center for Virology
			aposi's Sarcoma Tumor Niche
Umstadter, Donald LaserNet	Physics and Astronomy		NIH-NCI
LaserNet	US	wood, Charles	Biological Sciences/Biochemistry/ Nebraska Center for Virology
\$1,000,000	DOE		Nebraska Center for Virology
Relativistic Optics: Interacti	ions of Electrons with	Whitbeck, Les	Sociology
Laser Light at Highly Rela		A RCT of a Family-Centered	Ojibwe Substance Abuse Prevention
\$1,499,867	DoD-AFOSR		NIH-NIDA
Banerjee, Sudeep	Physics and Astronomy	Crawford, Devan	Sociology
Chen, Shouyuan			
Fuchs, Matthias		Wiebe, Matthew	Veterinary Medicine and
Shadwick, Bradley		•	Biomedical Sciences
Starace, Anthony	Physics and Astronomy	Mechanism of	the Antiviral Activity of
	. V.D C		virus and HSV-1 Infection
Laser Produced Cohere			NIH-NIAID
\$1,994,997	DOE		

Williams, Robert	Mechanical & Materials Engineering ustrial Assessment Center (NIAC)
\$1,439,589	DOECivil and Environmental Engineering
Support Ir	Nebraska Center for Research on Children, Youth, Families and Schools ska Multi-Tiered System of nplementation Support Team through Nebraska Department of Education
Disorders among Posts \$3,029,162	Biological Sciences/Biochemistry/ Nebraska Center for Virology biosis-Related HIV-Associated Cognitive ersons Who Inject Drugs in Puerto Rico
\$2,192,835 Biolo West, John Zambia AIDS Malignar \$3,842,954 Angeletti, Peter	in the state of th
and H \$3,745,393	t of Cannabis on Inflammation IV-1 Reservoirs in Zambia
\$1,482,515	nancies Training and Research ational Program (AMTRIP)
vvest, Jonn	Nebraska Center for Virology

iı	Biological Sciences/ Center for Plant Science Innovation Inction of the MOS4-Associated Complex In MicroRNA Biogenesis INIH-NIGMS
	Nutrition and Health Sciences/ Nebraska Center for the Prevention of Obesity Diseases through Dietary Molecules s of New Bioactive Compounds in Humans: Cows Milk MicroRNAs
\$1,785,715 Adamec, Jiri	
for the C \$1,288,002	Chemistry Cost, Efficient Next-Generation Solar Cells oming Clean Energy RevolutionNSF through Brown UniversityPhysics and Astronomy

Awards of \$250,000 to \$999,999

Active awards, July 1, 2019-June 30, 2020

* Indicates new in 2019-2020

Treatment Acce \$412,763	Sociology ts of Hurricane Maria on Opioid Agonist ss among PWID in Rural Puerto Rico
Touch \$443,931 Clarke, Jennifer Fernando, Samodha	College of Agricultural Sciences and Natural Resources tion of the Human Virome to ed Objects and Hair Shafts DOJ-NIJ Food Science and Technology Animal Science Plant Pathology
\$698,382	s Trace Evidence in Forensic InvestigationDOJ-NIJFood Science and Technology/StatisticsAnimal SciencePlant Pathology
Strain Drive in 0 \$550,000 Binek, Christian	Physics and Astronomy/ braska Center for Materials and Nanoscience n Dynamics of Phase Transitions Dxide Antiferromagnets
Strain Drive in (\$550,000	braska Center for Materials and Nanoscience n Dynamics of Phase Transitions Oxide AntiferromagnetsNSFPhysics and Astronomy

Alexandrov, Vitali Chemical and B	iomolecular Engineering
*Corrosion and Passivation Mechanism	
Cathodes from Ab Initio Interfacial Re	
\$302,291	
Allen, Craig	Natural Resources
Global Change, Vulnerability and	
Management Options for an Unc	
\$771,345	
Twidwell, Dirac Jr	ronomy and Horticulture
Alsaleem, Fadi Durhan	School of Architectural
	ineering & Construction
*Micro-Electro-Mechanical Neural Integ	
Computing Units for Wearable Devi	ce Applications
\$391,532	
Ψοσ 1,002	
Auchtung, Jennifer Food	Science and Technology
Using Complimentary in Vitro and in V	
Human Microbiome to Study Antibiotic-N	Adjusted Discussion
\$387,955	
\$J07,9JJ	DI II I3-CDC
Avolne Coorgo	Mathematics
Avalos, George	Mathematics
Analysis and Control Theo	ry for
Analysis and Control Theo Moving Boundary and Nonlinear	ry for Phenomena
Analysis and Control Theo Moving Boundary and Nonlinear in Interactive Partial Differentia	ry for Phenomena I Equations
Analysis and Control Theo Moving Boundary and Nonlinear in Interactive Partial Differentia \$328,901	ry for Phenomena I Equations NSF
Analysis and Control Theo Moving Boundary and Nonlinear in Interactive Partial Differentia	ry for Phenomena I Equations NSF
Analysis and Control Theo Moving Boundary and Nonlinear in Interactive Partial Differentia \$328,901	ry for Phenomena I EquationsNSFMathematics
Analysis and Control Theo Moving Boundary and Nonlinear in Interactive Partial Differentia \$328,901	ry for Phenomena I EquationsNSFMathematics
Analysis and Control Theo Moving Boundary and Nonlinear in Interactive Partial Differentia \$328,901	ry for Phenomena I EquationsNSFMathematics Iltural Research Division estern Corn Belt
Analysis and Control Theo Moving Boundary and Nonlinear in Interactive Partial Differentia \$328,901	ry for Phenomena I EquationsNSFMathematics Iltural Research Division estern Corn BeltUSDA-ARS
Analysis and Control Theo Moving Boundary and Nonlinear in Interactive Partial Differentia \$328,901	ry for Phenomena I EquationsNSFMathematics Ilfural Research Division estern Corn BeltUSDA-ARS . Agricultural Economics
Analysis and Control Theo Moving Boundary and Nonlinear in Interactive Partial Differentia \$328,901	ry for Phenomena I EquationsNSFMathematics Ilfural Research Division estern Corn BeltUSDA-ARS . Agricultural Economics
Analysis and Control Theo Moving Boundary and Nonlinear in Interactive Partial Differentia \$328,901 Guven Geredeli, Pelin *Agricultural Intensification in the Woods \$650,000 Giannakas, Konstantinos Suyker, Andy	ry for Phenomena I Equations
Analysis and Control Theo Moving Boundary and Nonlinear in Interactive Partial Differentia \$328,901 Guven Geredeli, Pelin *Agricultural Intensification in the Wo \$650,000 Giannakas, Konstantinos Suyker, Andy Carbon Flux from Great Plains Agroecos	ry for Phenomena I Equations
Analysis and Control Theo Moving Boundary and Nonlinear in Interactive Partial Differentia \$328,901	ry for Phenomena I Equations
Analysis and Control Theo Moving Boundary and Nonlinear in Interactive Partial Differentia \$328,901 Guven Geredeli, Pelin *Agricultural Intensification in the Wo \$650,000 Giannakas, Konstantinos Suyker, Andy Carbon Flux from Great Plains Agroecos with the ARS LTAR Netw \$300,000	ry for Phenomena I Equations
Analysis and Control Theo Moving Boundary and Nonlinear in Interactive Partial Differentia \$328,901	ry for Phenomena I Equations
Analysis and Control Theo Moving Boundary and Nonlinear in Interactive Partial Differentia \$328,901 Guven Geredeli, Pelin *Agricultural Intensification in the Wo \$650,000 Giannakas, Konstantinos Suyker, Andy Carbon Flux from Great Plains Agroecos with the ARS LTAR Netw \$300,000 Erickson, Galen	ry for Phenomena I Equations
Analysis and Control Theo Moving Boundary and Nonlinear in Interactive Partial Differentia \$328,901 Guven Geredeli, Pelin *Agricultural Intensification in the Wo \$650,000 Giannakas, Konstantinos Suyker, Andy Carbon Flux from Great Plains Agroecos with the ARS LTAR Netw \$300,000 Erickson, Galen	ry for Phenomena I Equations

\$445,241 Eun, Jongwan Jones, Elizabeth Kim, Seunghee Li, Xu Li, Yusong Linzell, Daniel Messer, Tiffany Sim, Chungwook Steelman, Joshua Wittich, Christine	ility of Horizontal Civil Networks in Rural Areas
on Groundv \$599,663	nfluence of Climate and Agricultural Clustering vater Contamination by Trace Organics
Cover Crops and an \$370,607 McMechan, Justin	Agronomy and Horticulture stainability of U.S. Cropping Systems Through Innovative Information and Technology NetworkUSDA-NIFA through North Carolina State UniversityEntomologyAgronomy and Horticulture
Biomedical Dev \$364,006	Biological Systems Engineering dergraduate Research Opportunities in rices at the University of Nebraska-LincolnNSFMechanical & Materials Engineering
Batelaan, Herman	Physics and Astronomy Coherent Electron Control

Becker, Donald Biochemistry/	Berkowitz, David Chemistry
Nebraska Center for Redox Biology/	Medical Countermeasure Drug Discovery and Development
Center for Plant Science Innovation	\$939,645 DoD-Offutt Air Force Base-STRATCOM through
REU Site: Training in Redox Biology	National Strategic Research Institute
\$298,186NSF	Dussault, Patrick
Adamec, Jiri Biochemistry/Nebraska Center for Redox Biology/	Helikar, Tomas Biochemistry Powers, Robert Chemistry
Center for Plant Science Innovation Du, Liangcheng Chemistry/Nebraska Center for Redox Biology/	Towers, Robert Chemistry
Center for Plant Science Innovation	Bianchini Huebner, Andreia Food Science and Technology
Franco Cruz, Rodrigo Veterinary Medicine and Biomedical Sciences/	Alliance for Food Security Through Reduction of
Nebraska Center for Redox Biology/	Postharvest Loss and Food Waste
Center for Plant Science Innovation	\$935,827 USAID through Kansas State University
Khalimonchuk, OlehBiochemistry/	+,
Nebraska Center for Redox Biology/	Bielenberg, Robert Midwest Roadside Safety Facility
Center for Plant Science Innovation	*Dynamic Testing and Evaluation of a Culvert-Mounted,
Lee, JaekwonBiochemistry/Nebraska Center for Redox Biology/ Center for Plant Science Innovation	Strong-Post MGS to TL-3 Guidelines of MASH 2016
Ro, Seung-Hyun Biochemistry/Nebraska Center for Redox Biology/	\$275,995 DOT-WI DOT through
Center for Plant Science Innovation	Nebraska Department of Transportation
Stone, Julie Biochemistry/Nebraska Center for Redox Biology/	Faller, RonaldMidwest Roadside Safety Facility
Center for Plant Science Innovation	Reid, John Mechanical & Materials Engineering
Wilson, Mark Biochemistry/Nebraska Center for Redox Biology/	Rosenbaugh, ScottMidwest Roadside Safety Facility
Center for Plant Science Innovation	Development of an Optimized MASH TL-4 Kansas Corral Rail
Zhang, Limei	(Kansas, Iowa, South Dakota and Virginia)
Center for Plant Science Innovation/	\$401,400
Nebraska Center for Redox Biology/	Nebraska Department of Transportation
Deleghabation Wittill Dhuster and Batternamy	Faller, Ronald Midwest Roadside Safety Facility
Belashchenko, Kirill Physics and Astronomy/ Nebraska Center for Materials and Nanoscience	Holloway, JamesMidwest Roadside Safety Facility
*First-Principles Studies of Spin-Orbit Torque and	Lechtenberg, KarlaMidwest Roadside Safety Facility
Magnetoresistance in Magnetic Nanostructures	Rosenbaugh, ScottMidwest Roadside Safety Facility
\$363,787NSF	Direct Obviotion Dhysics and Between Wolfschroeks Contac
1	Binek, Christian Physics and Astronomy/Nebraska Center for Materials and Nanoscience
First-Principles Studies of Relativistic	Magnetoelectrics and Spinorbitronics in
Spin Interactions and Torques	Topological Heterostructures and Superlattices
\$258,646NSF	\$600,851DoD-ONR through
	University of California, Los Angeles
Benson, John Natural Resources	
Reproductive Success, Survival, and Cause-specific	Black, Paul Biochemistry
Mortality of Bighorn Sheep in Nebraska \$280,740Nebraska Game and Parks Commission	Waste to Oil and High Value Bioproducts
\$200,740INEDIUSKU GUITE UTU I UTKS COITIIIISSIOII	\$734,608Nebraska Department of Economic Development
	through Vestal W2O
	Allen, JamesBiochemistry

	Agronomy and Horticulture to Enhance Soil Ecosystem Services e to Environmental Pressures		Mechanical & Materials Engineering ture and Failure: Transforming Computations are and Minutes to Meters and Years
\$500,000	e to Environmental PressuresUSDA-NIFAAgricultural EconomicsAgronomy and Horticulture	\$748,375	
Ruis, Sabrina	Agronomy and Horticulture Nebraska Research and Extension Center Agronomy and Horticulture	Resea Efficacy o	Educational Psychology/Nebraska Center for Irch on Children, Youth, Families and Schools of the START-Play Program for
with Bioc \$499,999	of Low C, Sandy and Sloping Soil har and Cover CropsUSDA-NIFA anhandle Research and Extension Center	\$499,088 Sheridan, Susan	with Neuromotor DisordersED-IES through Duquesne University Educational Psychology/Nebraska Center for arch on Children, Youth, Families and Schools
Drijber, Rhae Easterly, Amanda Jasa, Paul		*Restoration of Spectra	cial Education and Communication Disorders I Resolution with Hearing-Aid AmplificationNIH-NIDCD
\$252,471 Ferguson, Richard	rstem Services with Cover CropsNebraska Environmental TrustAgronomy and HorticultureBiological Systems Engineering	on Pasture \$325,000	Entomology Pull Strategy for Controlling Stable Flies Cattle in Nebraska and FloridaUSDA-NIFA
for Biofuel acr	tegies to Maximize Cover Crop Yields oss Precipitation Gradient USDA-NIFA	Hanford, Kathryn	West Central Research and Extension Center Statistics West Central Research and Extension Center
Creech, Cody Po Elmore, Roger	anhandle Research and Extension Center Agronomy and Horticulture Agronomy and Horticulture Agronomy and Horticulture	Brown, Carrie *CC* Team: (\$269,874	Holland Computing Center Great Plains Regional CyberTeam NSF through University of Missouri-Columbia
Ruis, Sabrina	Agricultural EconomicsAgronomy and Horticulture t Central Research and Extension CenterAgronomy and Horticulture	Mothering Pheno	Biological Systems Engineering fects of Farrowing Crate Design and otype on Pre-Weaning Piglet Survival
Its Role	Biological Sciences Edification in Archaea and in Gene Expression	Keshwani, Deepak	Biological Systems Engineering Biological Systems Engineering Biological Systems Engineering
\$379,675 Van Cott, Kevin			Biochemistry stabolic Processes in Methanogenic Archaea
\$416,464	evelopment of Bioenergy SystemsNSF		NSF
Cerutti, Heriberto	Biological Sciences/ Center for Plant Science Innovation	at the Ur	Public Policy Center Approach to Preventing Student Suicide iversity of Nebraska-Lincoln

\$250,000 DHS thro DeKraai, Mark	Homeland Security Planning Capacity bugh Nebraska Military Department-NEMAPsychology/Public Policy CenterPublic Policy Center	Participation to Increa	Natural Resources Inting and Conservation Organization se Effectiveness of R3 Programs Nebraska Game and Parks Commission
Cahoon, Edgar	Biochemistry/ Center for Plant Science Innovation ipid Metabolic and Regulatory Network	\$281,510	ns of Wildlife Survey AnalysisDOI-FWS through Nebraska Game and Parks Commission
	NSF		
Markham, Jonathan	Biochemistry/ Center for Plant Science Innovation	\$288,371	of the Nebraska Outdoor EnthusiastDOI-FWS through
Saha, Rajib	Chemical and Biomolecular Engineering/ Center for Plant Science Innovation	Fontaine, Joseph	Nebraska Game and Parks CommissionNatural ResourcesNatural Resources
Carroll, John	Natural Resources	·	
	pement and Human Dimensions	Choi, Evan	Child, Youth and Family Studies/
	DOI-FWS through		Nebraska Center for Research on
\$233,000	Nebraska Game and Parks Commission		Children, Youth, Families and Schools
	Nebraska Game and Farks Commission	*Youth Civic Enaggement: U	sing Simulations and Design Thinking
Centurion, Martin	Physics and Astronomy		USDA-NĬFA
	g Ultrafast Electron-Driven	De Guzman, Maria	Child, Youth and Family Studies/
	Il Reactions in Molecules		Nebraska Center for Research on
	DOE		Children, Youth, Families and Schools
ψ, σο,στ,		Jennings, Euwanda	Metro Extension District/
OP: Diffractive Imag	ging of Complex Isolated Molecules		Nebraska Center for Research on
	NSF		Children, Youth, Families and Schools
, ,		Kim, Surin Textil	es, Merchandising and Fashion Design/
Cerutti, Heriberto	Biological Sciences/		Nebraska Center for Research on
outuin, numburtu	Center for Plant Science Innovation	Lauran Andri	Children, Youth, Families and Schools4-H State Office/
Developing Genetic a	nd Genomics Tools for <i>Tetraselmis</i> sp.	Larson, Anay	Nebraska Center for Research on
	Gordon and Betty Moore Foundation		Children, Youth, Families and Schools
	Agronomy and Horticulture/	Parra Gilbert	Child, Youth and Family Studies/
	Center for Plant Science Innovation	Turia, dilbert	Nebraska Center for Research on
			Children, Youth, Families and Schools
	RNA-Mediated Translation Repression	Sierra, LeoPan	handle Research and Extension Center/
in	Chlamydomonas	,	Nebraska Center for Research on
\$560,000	NSF		Children, Youth, Families and Schools
		Valentine, Dagen	4-H State Office/
Chaves Elizondo, Byron	Food Science and Technology		Nebraska Center for Research on
	opment of Food Safety Plans Through eventive Controls School Initiative		Children, Youth, Families and Schools
	USDA-NIFA	Choueiry, Berthe	Computer Science and Engineering
Baumert, Joseph	Food Science and Technology		e Power of Constraint Propagation
	Food Science and Technology		Levels and Synthesizing Constraints
	Food Science and Technology	\$486,000	NSF
Wang, Bing	Food Science and Technology		

Christensen, Alan	Biological Sciences	Corman, Jessica	Natural Resources
	ak Repair in Plant Mitochondria: ucts and Proteins	*StreamNet: Building (Capacity to Improve Water QualityNebraska Environmental Trust
	NSF		Nebraska Environmentar rrust
			Natural Resources
	f Plant Mitochondrial DNA Repair		
\$660,788	NSF	Couch, Brian	Biological Sciences/ Nebraska Center for Virology
Ciftci, Ozan	Food Science and Technology	Mapping Change in F	ligher Education Social Networks
	oach to Increasing Bioavailability		STEM Reforms
of Curcumin Using	Nanoporous Starch Bioaerogels	\$524,243	NSF
Manasas Ganzalaz Vulia	USDA-NIFA	Cultivating Active Le	arners by Enabling Instructors to
			Student Buy-in and Utilization of
Rose, Devin	Food Science and Technology	Research-base	ed Instructional Strategies
		\$299,920	NSF
a High-value, Stable o	ntegrated Green Process to Obtain and Bioavailable Lycopene Product	Brassil, Chad	Biological Sciences
	Processing Industry Waste		er Institution on Faculty Teaching
	USDA-NIFA . Chemical and Biomolecular Engineering		udent Achievement
Demirei, fasar	. Chemical and biomolecular Engineering	\$393,068	NSF through University of Colorado
Ciobanu, Daniel	Animal Science		Network in Functional Genomics
	ing the Role of SYNGR2 in		NIH-NIGMS through UNMC
Viral Disease	Susceptibility in Livestock	Wood, Charles	Biological Sciences/Biochemistry/
	USDA-NIFA		Nebraska Center for Virology
Vu, Hiep	Animal Science	Cressler, Clay	Biological Sciences
Investigation of Host Genet	ic Role in PCV2 and PRRSV Susceptibility		ion as Drivers of Heterogeneity in
	USDA-NIFA	l .	e Infectious Disease Processes
	Statistics		NSF through University of Arkansas
Vu, Hiep	Nebraska Center for Virology		
Olemente Themes	A and the contract	Cui, Bai	Mechanical & Materials Engineering
Clemente, Thomas	Agronomy and Horticulture/ Center for Plant Science Innovation/		anisms of the Pulsed Electric Current
	Center for Biotechnology		de-Dispersion-Strengthened AlloysNSF
FAGER: Non-integrative	e Transient Delivery of Reagents into		Mechanical & Materials Engineering
	V Secretion System of <i>A. tumefaciens</i>	21100, 2111	Woonamour & Waterialo Engineering
	NSF		ghening Structural Ceramics by eered Laser Shock Peening
	o Solve the Water Use Problem of	\$348,336	NSF
	energy and Bioproduct Feedstocks	Lu, Yongfeng	Electrical and Computer Engineering
	DOE through niversity of Illinois at Urbana-Champaign		
A Resource f	or Functional Genomics to		
	ean Genetics and Breeding		
\$835,378	NSF through University of Georgia		
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*Bridging Science Education and Psychology Pe		omoting Prosocial Bystander Behavior in Intoxicated Men:
Support Science Literacy Theory and Instr \$349,836	NSF \$256,50	Evaluation of RealConsent2.0 OONIH-NIAAA through Georgia State University , Sarah
Making Decisions about Socioscientific Is Multidisciplinary Postsecondary Learning Env	sues in	Intervention to Promote Pro-social Bystander Behaviors
\$303,419	NSF \$402,11	
DeLong, John Understanding the Consequences of	ological Sciences Gervais	s, Sarah
Body Size Evolution in Ecological Commu	nities Dodds ,	· · · · · · · · · · · · · · · · · · ·
\$450,000 James S. McD		Phase Structural Analysis of Metal Cationized Carbohydrates OONSF
Detweiler, Carrick Computer Scienc		
*NRI: INT: Raining Drones: Mid-Air Relea Recovery of Atmospheric Sensing Syste		itchell Extension/ Nebraska Local Technical Assistance Program
\$643,600	NSF	Nebraska Local Technical Assistance Program
Houston, Adam Earth and Atm	ospheric Sciences \$855,97	74DOT-FHWA through Nebraska Department of Transportation
Fixed Wing VTOL Sensor Emplaceme	ATCOMAIL I	·
\$740,798 DoD-Offutt Air Force Base-ST National Strategic	Research Institute	ss, Matthew Natural Resources ng-Term Perspectives on Water Security, Food Security, and
Bradley, Justin	e and Engineering	Land Management Among Daasanach Pastoralists of East Turkana, Northern Kenya
COTS Autonomous Tracking and Indicating		70NSF
\$677,489 DoD-Offutt Air Force Base-ST National Strategic	RATCOM through	Larkin
Bradley, Justin	e and Engineering Dowben	n, Peter Physics and Astronomy/
Duncan, Brittany Computer Science	e and Engineering	Nebraska Center for Materials and Nanoscience
Detection of Nuclear Threats Using Deployab		*Heteromolecular Interface Design for Better Multiferroic Molecular Spintronics
\$469,293DoD-Offutt Air Force Base-ST National Strategic		34NSF
Bradley, JustinComputer Science	e and Engineering	
Duncan, BrittanyComputer Science	and Engineering	ntrolling Structural, Electronic, and Energy Flow Dynamics of Catalytic Processes Through Tailored Nanostructures
At the Water's Edge:	\$340,00	01University of Central Florida
Installation and Optimization of Robotic Sensi \$949,716		Spin and Dipole Ordering at Molecular Film Interfaces
Bradley, Justin		NSF

Duncan, Brittany Computer Science and Engineering *NRI: INT: Leveraging Environmental Monitoring UAS in Rainforests \$722,804
REU Site: Undergraduate Research Opportunities in Unmanned Systems Foundations and Applications \$360,649
Duncan, Daniel Nebraska Innovation Campus Biotech Connector DOC-EDA
Duppong Hurley, Kristin Special Education and Communication Disorders/
Academy for Child and Family Wellbeing Parental Involvement in Education: Comparing Academic Outcomes for High School Students in the General Population and those at Risk of Emotional and Behavioral Issues \$599,680
Randomized Clinical Trial of the Boys Town In-Home Program \$803,256Father Flanagan's Boys' Home
Dussault, Patrick Chemistry A New Paradigm for Ether Synthesis \$390,000
Dzenis, Yuris *STTR: Corrosion Resistant Missile Cell Hatch Cover \$500,047 DoD-NAVSEA through Pacific Engineering Inc.
*Ultratough Lightweight High-Temperature Nanofibers for Aerospace Composites \$599,374DoD-AFOSR

Biomimetic Nanostructured Materials Based on Synthetic Spider Silk
\$300,000NSF
GOALI: Nanomanufacturing of Ultrahigh-Performance Continuous Carbon Nanofibers and Assemblies
\$299,947
Edwards, Katie Educational Psychology/ Nebraska Center for Research on
Children, Youth, Families and Schools *Evaluating Practice-Based Sexual Violence Primary Prevention Approaches from CDC's Rape Prevention \$743,021
Ţ, 16,021
*The Role of Stigma in Partner Violence \$413,900NSF
Elkins, Lynne Earth and Atmospheric Sciences Testing Extrusion Tectonics, Rifting, and
Lithosphere-Asthenosphere Coupling Models for the Central Highlands Diffuse Igneous Province, Vietnam \$413,437
Assessing Segment-scale Compositional Control over Slow-spreading Ridge Morphology \$259,150
Erixson, John Genomic Tools, Genetic Resources, and Outreach to Expand Commercial U.S. Hazelnut Production \$685,869
oldro, / taron
Community Adjacent Fuels Award \$572,654
Protecting, Rehabilitating and Restoring Nebraska's Pine Forest Ecosystems \$989,667Nebraska Environmental Trust

Eskridge, Kent Statistics GAANN Fellowship Program for Statistics \$887,202
Everhart, Sydney *Improved White Mold Resistance in Dry and Snap Beans Through Multi-Site Screening and Pathogen Characterization Throughout Major Production Areas \$276,002
Fabrikant, Ilya Physics and Astronomy *Electron and Positronium Collisions with Molecules \$270,000
Inelastic Electron Collisions with Molecules and Clusters \$269,465NSF
Faller, Ronald Crash Testing of Various Bridge Guardrails and Transitions \$799,563 DOT-FHWA through Hawaii Department of Transportation Bielenberg, Robert Holloway, James Midwest Roadside Safety Facility Holloway, James Midwest Roadside Safety Facility Lechtenberg, Karla Midwest Roadside Safety Facility Ranjha, Sagheer Midwest Roadside Safety Facility Rasmussen, Jennifer Midwest Roadside Safety Facility Reid, John Mechanical & Materials Engineering Rosenbaugh, Scott Midwest Roadside Safety Facility Song, Chung Civil and Environmental Engineering Steelman, Joshua Civil and Environmental Engineering Stolle, Cody Midwest Roadside Safety Facility
MnDOT Barriers 157 and 158 MASH 2016 Testing, Level 3 and Level 4 Evaluations \$560,286

MASH TL-4 Steel-tube Bridge Rail and Guardrail Transition \$926,851 DOT-IL DOT/OH DOT through
Dynamic Testing and Evaluation of a New York DOT Prototype Box Beam Guardrail End Terminal System under AASHTO MASH 2016 TL-3 Guidelines \$265,250
Evaluation of New Jersey TCB Performance under MASH TL-3 \$702,369
lowa DOT Combination Bridge Separation Barrier with Bicycle Railing \$254,445
Phase II Conceptual Development of an Impact Attenuation System for Intersecting Roadways \$256,184
Fernandez-Ballester, Lucia Mechanical & Materials Engineering Nucleation Control of Conjugated Polymers Through Melt-crystallization and Self-seeding \$345,000

Fernando, Samodha	Animal Science	Franz, Trenton	Natural Resources
*Improving Water Quality and			ble Real-Time Sensing and Decision-Making
in the Platte River and Tril		\$319 997	evel Row-Crop Irrigation ManagementUSDA-NIFA through
Pegg, Mark			University of Illinois-Urbana/Champaian
- 99,		Heeren, Derek	Biological Systems Engineering
Investigating Mobile Genetic Elements		Rudnick, Daran	West Central Research and Extension Center
Reservoirs towards Understanding the E			
of Antimicrobial Resistance in Beef Catt \$830,751		Fritz, Sherilyn	Earth and Atmospheric Sciences/
Bartelt-Hunt, ShannonCivil and E		550D T 4 T	Biological Sciences
Loy, DustinVeterinary Medicine			Dynamics of Mountains, Landscapes, the Distribution and Generation of
Messer, Tiffany Biolo	gical Systems Engineering		of the Amazon/Andean Forest
Schmidt, Amy Animal Science/Biolo			NSF through Duke University
Snow, Daniel			
Stowell, Nick blolo	rgicul Systems Engineering	Fuchs, Brian	Natural Resources
Moving Beyond Rumen Microbioto	Composition to		n Services and Research for Agriculture
Identify Interactions between Host G			cross the United States
Function towards Identifying Gene			USDA-OCENatural Resources
Microbial Functions that Influence \$500,000		Svoboda, Mark	vatarar kesources
Morota, Gota		Fuchs, Matthias	Physics and Astronomy
Spangler, Matthew			ce Investigation of Laser-driven
		Weakly	Relativistic Electron Beams
	and Atmospheric Sciences	\$420,000	NSF
ELT Collaborative Rese			Physics and Astronomy Physics and Astronomy
Causes and Effects of the Permian-Ti Inferred from Continental Margin Sec		Sildawick, bradicy	Thysics and Astronomy
\$400,157			onlinear X-Ray Optics
Frank, Tracy Earth		\$594,760	DOE
Forbes, Cory	Natural Resources/	Gamon, John	Natural Resources
Robert B. Daugheri	ty Water for Food Institute		inking Remotely Sensed Optical Diversity Plogenetic and Functional Diversity
*INFEWS/T3 RCN: Cultivating a Natio Research on Food, Energy, and Water	nal Collaborative for	to Pre	edict Ecosystem Processes
\$749,964		\$716,893	NSF
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*Supporting Undergraduate Teach			eason Length and Productivity across the Novel Satellite Indices and a Ground Sensor
about Socio-Hydrological Challe Data-Driven Modeling in the FA	enges I hrough		NASA
\$299,997			Biological Systems Engineering
<u> </u>			
IUSE: Fostering Undergradua			
Disciplinary Learning and Wa			
\$299,018 Brozovic, Nicholas			
	ty Water for Food Institute		
Franz, Trenton	Natural Resources/		
Robert B. Daughert	ty Water for Food Institute		

Gardner, Scott	University of Nebraska State Museum/	Gilmore, Troy	Natural Resources
	Biological Sciences		scale Groundwater Transit Time
*Digitization TCN: [Digitizing Collections to Trace Parasite-Host		Impling and Numerical Modeling
	Predict the Spread of Vector-Borne Disease	\$387,030	NSF
\$426,149	NSF		Biological Systems Engineering
		Zlotnik, Vitaly	Earth and Atmospheric Sciences
	tory: Digitizing and Conserving Specimens		
	anter Laboratory of ParasitologyNSF	Golick, Douglas	Entomology
	University of Nebraska State Museum		uate Research and Science
Diamona, Judy	Onliversity of Nebraska State Museum		ough Beneficial Insects Protection
CSBR: Natural F	History: Securing and Digitizing Data for		nsion Experiences (FACT)USDA-NIFA
	sity Specimens in the Manter Laboratory		Entomology
			Entomology
Gay, Timothy	Physics and Astronomy		Entomology
Accurate Elect	tron Spin Optical Polarimetry (AESOP)	McMechan, Justin	Entomology
\$565,000	NSF		Central Research and Extension Center
_			Entomology
	Polarized Electron Physics	Weissling, Iom	Entomology
\$5/0,000	NSF	vvu-smart, Judy	Entomology
Ge, Yufeng	Biological Systems Engineering	Community as Habitat: No	ebraska Communities Supporting
	amic Soil Information System Enabled		dscape Diversity Through
CF3: 3D DYIIC	V and Proximal Depth Sensing	Native Water	wise Plant Habitats
			Nebraska Environmental Trust
	Biological Systems Engineering	Evertson, Justin	Nebraska State Forest Service
	Computer Science and Engineering		
Zhou, Yuzhen	Statistics	Graef, George	Agronomy and Horticulture
			n Genetic Gain for Yield by
	sed Multi-sensing Penetrometer for		now-How and Community
	h-resolution Depth Sensing of Soils		ers in the North Central U.S. al Soybean Research Program through
\$499,090	U3DA-NIFA	\$207,500	Ohio State University
PAPM EAGER	: Transitioning to the Next-generation	Hyten, David Jr	Agronomy and Horticulture
	Plant Phenotyping Robots	,	3
\$285,000	USDA-NIFA		netic Diversity to Combine
	Biological Systems Engineering		ncentration with High Yield
Schnable, James	Biological Systems Engineering		and Experimental Lines
IDDD T A	Mile (II 2DD : I		. United Soybean Board/Smith/Bucklin
	: Multispectral Laser 3D Ranging and g System for Plant Phenotyping	Hyten, David Jr	Agronomy and Horticulture
	g system for Plant Phenotyping NSF		
	Agronomy and Horticulture		
	Computer Science and Engineering		
	, ,		

Increasing the Rate of Genetic Gain for Yield in Soybean Breeding Programs \$282,668 North Central Soybean Research Program through Ohio State University Ge, Yufeng Biological Systems Engineering Hyten, David Jr Agronomy and Horticulture Soybean Breeding and Genetic Studies for Nebraska	Harwood, David Earth and Atmospheric Sciences/ Antarctic Drilling Program Subglacial Antarctic Lakes Scientific Access (SALSA): Integrated Study of Carbon Cycling in Hydrologically Active Subglacial Environments \$349,956
\$293,416	Heaton, Ruth Teaching, Learning and Teacher Education/ Nebraska Genter for Research on Children, Youth, Families and Schools/ Center for Science, Mathematics and Computer Education Math Early On II \$662,227
Framing the Chemistry Curriculum \$749,285	Children, Youth, Families and Schools/ Center for Science, Mathematics and Computer Education Hebets, Eileen A Comparative Systems Approach to Complex Animal Signaling \$702,502
Gruverman, Alexei Physics and Astronomy/ Nebraska Center for Materials and Nanoscience Domain Wall Engineering for Novel Nanoelectronics \$338,422	Navigation and the Neural Integration of Multimodal Sensory Information in the Brain of an Arthropod \$285,215
Guretzky, John Developing Research and Extension Skills of Students in Integrated Agronomic Systems \$275,667	Hong, Xia Nebraska Center for Materials and Nanoscience *Complex Oxide Heterostructure-Based Negative Capacitance Mott FETs \$264,000

Houston, Adam	Earth and Atmospheric Sciences	Johnson, Mary Ann	Nutrition and Health Sciences/
	ed Observation by Radars AS of Supercells (TORUS)	n	Nebraska Center for the Prevention of besity Diseases through Dietary Molecules
	NSF	Bioavailability and [Distribution of Bovine Milk Exosomes Lipid and Protein Cargos in Mice
	sture-Convective Precipitation Feedbacks	\$347,185	PureTech Health
with So \$402,364	il Moisture Active Passive NASA through The Ohio State University	-	Nutrition and Health Sciences/ Nebraska Center for the Prevention of besity Diseases through Dietary Molecules
Teleprac	cial Education and Communication Disorders ctice for Cochlear Implants	Zempleni, Janos	Nutrition and Health Sciences/ Nebraska Center for the Prevention of
	NIH-NIDCD	O	besity Diseases through Dietary Molecules
vvneeler, Lorey	Nebraska Center for Research on Children, Youth, Families and Schools	Johnson, Phillip Robust Metho	Food Science and Technology ds for Food Allergen Detection
	gy as a Potential Predictor		ntitative Risk Assessment
of Perce	ption in Cochlear Implants		USDA-NIFA
		Downs, Melanie	Food Science and TechnologyFood Science and TechnologyFood Science and Technology
Hunt, Thomas	Entomology	Johnson, Scott	Biological Process Development Facility
Evaluating the Efficacy of Delaying the Onset of Bac	Insect Resistance Management Plans for sillus Thuringiensis Toxin Resistance	*Developing MG5	53 as a Novel Protein Therapeutic Acute Lung Injury
	USDA-NIFA	\$439,999	DoD-Army Medical Research through Ohio State University
Peterson, Julie V	Vest Central Research and Extension Center		
Hutkins, Robert Digestive Tract Microl	Food Science and Technology biome in Healthy Term Infants Receiving		Sociology/Women's and Gender Studies emption Laws and the Rights Il and Gender Minorities
	Milk or Cows Milk-based Infant Formulas		NSF
		Burke, Kelsy	Sociology
	Biological Systems Engineering Water Storage Effect of Individual and	Understanding of Co	Biological Systems Engineering onal Game Simulations to Enhance rn-Water Ethanol-Beef System Nexus
Mixed Cover Species \$303,872	and Impacts on Soil Quality VariablesNebraska Environmental Trust	Chen, Jiajia	
	Food Science and Technology Gut Microbiome and Colorectal Cancer CI through Massachusetts General Hospital	Koelsch, Richard Rosenbaum, David	Biological Systems Engineering Bureau of Business Research Bureau of Business Research
			Sociology unity Conversations About Research Youth Suicide in Rural Alaska
			DHHS-NIH through University of Michigan

Kim, Panya	Center for Plant Science Innovation	Krull, Dean	Agronomy and Horticulture
*IOS: The Microtubule Network and Plant Immunity \$600,000NSF Van Dijk, KarinBiochemistry/Center for Plant Science Innovation		\$555,982	ying Irrigation Systems Today Central Platte NRD
and Youth Hi to Nurtur	Textiles, Merchandising and Fashion Design ommunity Connections, Local Issues, gh Tech Entrepreneurship Education e Rural Economic Opportunities	in Wat \$654,700	Natural Resources lydrogeologic Databases to Assist ter Resources ManagementLower Elkhorn NRD
De Guzman, Maria Guru, Ashu		and Rubbe \$500,001	Panhandle Research and Extension Center - Bioenergy, Advanced Biofuel r Research Agricultural Linkages USDA-NIFA through Ohio State University Panhandle Research and Extension Center
Knoche, Lisa	Nebraska Center for Research on Children, Youth, Families and Schools		Panhandle Research and Extension Center
Getting Ready \$318,116	y Preschool Development Grant PDG DHHS-ACF-Nebraska Department of Health and Human Services through Nebraska Children and Families Foundation	\$376,367M	Midwest Roadside Safety Facility h Testing MoDOT Devices ssouri Department of Transportation through Nebraska Department of RoadsMidwest Roadside Safety Facility
Korus, Jesse Natural Resources *Aquifer Recharge and Sustainability in the Republican Basin \$269,008Nebraska Natural Resources Commission through Middle Republican NRD		Holloway, Jim Rasmussen, Jennifer	Midwest Roadside Safety FacilityMidwest Roadside Safety Facility
Hydrogeologic I \$264,014 Nebra Cameron, Kathleen	ud: An Integrated Bedrock Mapping and Framework Database and Map Viewer ska Department of Natural Resources through Lower Platte South NRD	to Determi \$799,890 Claes, Daniel Harwood, David	ne Sources of Effective Teaching
in Dzy	Physics and Astronomy ar Magnetism and Dynamic Effects valoshinskii-Moriya Magnets	and Using	Animal Science arasite Resistance in Organic Livestock a Systems Approach for Control
Krehbiel, Michelle	Extension		USDA-ARS
Nebraska CY \$648,750 Chai, Weiwen Fischer, Jean Franzen-Castle, Lisa	FAR Sustainable Community Project	*Preclinical D	Biological Sciences/ Nebraska Center for Virology Microbiome on HIV-1 Rectal Transmission Junopathogenesis During ARTNIH-NIAID evelopment of Ingenol and HDACi June HIV EradicationNIH-NIAID through University of Utah

*Beat-HIV: Delaney Collaborative to Cure HIV-1 Infection by Immunotherapy \$286,156NIH-NIAID through Wistar Institute	Lu, Yongfeng Electrical and Computer Engineering *Femto Second Laser Machining of Various Materials \$570,000
Impact of Fc N-glycan Structure on HIV-specific Antibody Functions \$586,217NIH-NIAID through University of Wyoming Long-acting Antiretroviral Nanoparticles for HIV Prophylaxis \$259,125NIH-NIAID through Creighton University	Fabrication and Verification of Fuel Targets for Laser Fusion Research \$725,377
Li, Xu Civil and Environmental Engineering Antibiotic Resistance Genes in the Soil-Plant Ecosystem \$330,000	\$905,025
Lindquist, John A Risk-assessment Model and Population Genomics Tools for Monitoring Herbicide-resistance Evolution in Weedy Sorghum \$499,998	Luck, Joe Using Precision Technology in On-farm Field Trials to Enable Data-intensive Fertilizer Management \$513,798
Lodl, Kathleen *EAGER: Building an Ecosystem for Broadening Participation for Computing: 4-H and the Land-Grant University System \$297,313	Next-generation Spray Drift Mitigation via Field-deployable, Real-time Weather Monitoring and Novel Spray Nozzle Control Technologies \$499,916
*Characterizing the Interplay Between Sorghum and Fall Armyworm \$429,248USDA-NIFA	

Mamo, Martha Agronomy and Horticulture	Moreau, Regis Nutrition and Health Sciences
Fostering the Next Generation of Agricultural and Natural Resources Professionals Through Experiential Learning	Bioactivity of Curcumin and Gut Inflammation
in Research, Education and Extension	\$480,214
\$281,475 USDA-NIFA	
Keshwani, Jennifer Biological Systems Engineering	Mulliniks, Travis West Central Research and Extension Center
Lambe, David	*Impact of Milk Production on Cow-Calf Productivity,
Matkin, Gina Agricultural Leadership,	Grazing Behavior, and Profitability \$299,999USDA-NIFA
Education and Communication	Fernando, Samodha
Sandall, Leah Agronomy and Horticulture Schacht, Walter Agronomy and Horticulture	Stephenson, Mitchell Panhandle Research and Extension Center
Speth, Carol	
, ,	Munoz-Arriola, Francisco Biological Systems Engineering From Gene to Global Hydroclimatic Controls
Markham, Jonathan Biochemistry	on Hybrid Performance Predictability
Plant Sphingolipids: New Targets for	\$490,000USDA-NIFA
Engineering Cold-Tolerance in Crops \$408,000	Hernandez Jarquin, Juan Diego Agronomy and Horticulture
Cahoon, Edgar	Noole Obvietenber Dielegieel Oveteme Engineering
	Neale, Christopher Biological Systems Engineering/ Robert B. Daugherty Water for Food Institute
McMechan, Justin Entomology	*Irrigation Innovation Consortium-Base Funding
*Soybean Gall Midge: Surveying the North Central Region, Adult Monitoring and Host Plant Resistance	\$263,000Foundation for Food and Agriculture Research through
\$307,953North Central Soybean Research Program	Colorado State University Rudnick, Daran Robert B. Daugherty Water for Food Institute
Graef, George Agronomy and Horticulture	Safa, Babak Robert B. Daugherty Water for Food Institute
Hunt, Thomas Entomology Wright, Robert Entomology	Zution Goncalves, Ivo Robert B. Daugherty Water for Food Institute
wright, RobertEntomology	landaria a Vanial la Data laria atica Efficia a considera
Messer, Tiffany Biological Systems Engineering	Improving Variable Rate Irrigation Efficiency using a Real-time Soil Water Adaptive Control Model
Photodegradation of Insecticides in Rivers Adjacent to Agricultural	Informed by Sensors Deployed on Unmanned Aircraft Systems
Intensive Regions: A Novel Water Quality Monitoring Approach	\$499,978USDA-NIFA
\$498,500	Ge, YufengBiological Systems Engineering Heeren, DerekBiological Systems Engineering
,	Luck, Joe Biological Systems Engineering
Montooth, Kristi Biological Sciences	Meyer, George Biological Systems Engineering
RoL: FELS: EAGER: A Predictive Framework of Metabolism	Woldt, Wayne Biological Systems Engineering
as an Engine of Functional Environmental Responses across Levels of Biological Organization	Reconfiguring Farmers' Behavior to Reduce Irrigation
\$299,999NSF	Water Use Through Water Measurements and Social Norms
DeLong, JohnBiological Sciences	Interventions: A Case Study in the Republican River Basin \$453,539USDA-NIFA
Man Alone	Olson, Kristen
Moon, Alena Chemistry *Developing Educational Measurement Competency to	37
Support Investigations of Students' Conceptions of Light	

Nelson, J. Ron Special Education and Communication Disorders *Designing and Providing Academic Interventions	Nugent, Gwen Nebraska Center for Research on Children, Youth, Families and Schools
\$955,034	Analysis of Effective Science Coaching: What, Why and How \$699,584
Hebert, Michael	Children, Youth, Families and Schools Kunz, Gina Nebraska Center for Research on
Loveall-Hague, Susan	Children, Youth, Families and Schools
Namkung, Jessica	Otu, Hasan Electrical and Computer Engineering Identification and Characterization of Interaction Atlases in Humans \$399,477
	Sayood, Khalid Electrical and Computer Engineering
Ngoko Djiokap, Jean Marcel Physics and Astronomy Strong Field & Ultrafast Atomic and Molecular Processes	Pannier, Angela Biological Systems Engineering Understanding Molecular Factors that
\$457,000NSF	Regulate Initiation of Porcine Embryo Elongation \$465,000
Nguyen, Lim Electrical and Computer Engineering ABC Group SRA: Center for Electromagnetic	Park, Jae Sung Mechanical & Materials Engineering
Concrete R&D and Shielding Innovations \$301,408	*Nonlinear Electrokinetics at Polarizable Soft Interfaces: Implications for Cell Membrane Characterization and Nanopore Transport
Niu, Wei Chemical and Biomolecular Engineering/ Nebraska Center for Energy Sciences Research	\$387,356NSF Yang, RuiguoMechanical & Materials Engineering
Engineering Carboxylic Acid Reductase for the Biosyntheses of Industrial Chemicals	Pérez, Lance Electrical and Computer Engineering Spatial Visualization Skills and Engineering Problem Solving
\$335,516	\$645,943NSF
Wilson, Mark Biochemistry/Nebraska Center for Energy Sciences Research	Petersen, Jessica Animal Science Annotation of Functional Regulatory Regions in the Horse \$500,000 USDA-NIFA
Nobert, Heather *Great Plains Biochar Initiative II: Supply and Demand for Biochar as a Cattle Feed Additive \$250,000	Piepenbrink, Kurt Food Science and Technology Structural Basis of Type IV Pilus-Induced Clostridium difficile Microcolony Formation
Erickson, Galen	\$259,560NIH-NIAID
Watson, AndreaAnimal Science	Pierobon, Massimiliano Computer Science and Engineering CIF: Small: WetComm: Foundations of Wet Communication Theory \$515,528NSF Niu, WeiShip. Chemical and Biomolecular Engineering

	Qiao, Wei Electrical and Computer Engineering
In-field Tractor Operational Load Profile Generation in Support of Advanced Tractor Testing in Mixed-mode Power States \$472,887USDA-NIFA	Online Nonintrusive Identification and Monitoring of Internal Weak Points of Electro-energy Devices Using Package Surface Temperature \$337,897NSF
Hoy, Roger	φοση,σοση
Luck, Joe Biological Systems Engineering Rohrer, Rodney Biological Systems Engineering	Qiao, Xin Panhandle Research and Extension Center *Beneficial Impact of Injected Air Into a Subsurface Drip Irrigation System on Plant Growth and Uptake of
Pope, Kevin *Monitoring, Mapping, Risk Assessment and	Emerging Antibiotics Using Runoff From a Feedlot \$287,605
Management of Invasive Species in Nebraska \$453,662	Biswas, Saptashati
Powell, Larkin Natural Resources	
Management of Private Grazing Lands in Nebraska: Do Differences in Ranch Management and Landowner Characteristics Affect Conservation Impacts	SCC: An Integrated and Smart System for Irrigation Management in Rural Communities \$541,048
\$344,521 Nebraska Game and Parks Commission Schacht, Walter Agronomy and Horticulture	Rudnick, Daran West Central Research and Extension Center Yang, Haishun Agronomy and Horticulture
Persistent Effects of Wind-Power Development	Radu, Petronela Mathematics
on Prairie Grouse in Nebraska	Higher Order Nonlocal Models in Continuum Mechanics
\$717,487 Nebraska Game and Parks Commission Fontaine, Joseph Natural Resources	\$354,089NSF Foss, MikilMathematics
Powers, Robert Chemistry	Raikes, Helen Child, Youth and Family Studies
ABI Innovation: A Metabolomics Toolkit for NMR and Mass Spectrometry	Evaluation of Early Steps to School Success \$734,694Save the Children
\$695,000NSF	y/o 1/03 t
	Rajca, Andrzej Chemistry
Proctor, Christopher Agronomy and Horticulture	Organic Nanoparticles for Dual MRI-Guided Therapeutic Selection
Optimizing Cropping Systems for Resilience to Stress:	Organic Nanoparticles for Dual MRI-Guided Therapeutic Selection and Ovarian Cancer Drug Delivery
Optimizing Cropping Systems for Resilience to Stress: The Role of Maturity Group Selection and Cover Crops on Yield, Weeds, Insects and Microbes	Organic Nanoparticles for Dual MRI-Guided Therapeutic Selection
Optimizing Cropping Systems for Resilience to Stress: The Role of Maturity Group Selection and Cover Crops on Yield, Weeds, Insects and Microbes \$461,187	Organic Nanoparticles for Dual MRI-Guided Therapeutic Selection and Ovarian Cancer Drug Delivery \$316,735NIH-NCI through Massachusetts Institute of Technology Nitrogen-Centered Radicals
Optimizing Cropping Systems for Resilience to Stress: The Role of Maturity Group Selection and Cover Crops on Yield, Weeds, Insects and Microbes \$461,187	Organic Nanoparticles for Dual MRI-Guided Therapeutic Selection and Ovarian Cancer Drug Delivery \$316,735
Optimizing Cropping Systems for Resilience to Stress: The Role of Maturity Group Selection and Cover Crops on Yield, Weeds, Insects and Microbes \$461,187	Organic Nanoparticles for Dual MRI-Guided Therapeutic Selection and Ovarian Cancer Drug Delivery \$316,735
Optimizing Cropping Systems for Resilience to Stress: The Role of Maturity Group Selection and Cover Crops on Yield, Weeds, Insects and Microbes \$461,187	Organic Nanoparticles for Dual MRI-Guided Therapeutic Selection and Ovarian Cancer Drug Delivery \$316,735NIH-NCI through Massachusetts Institute of Technology Nitrogen-Centered Radicals
Optimizing Cropping Systems for Resilience to Stress: The Role of Maturity Group Selection and Cover Crops on Yield, Weeds, Insects and Microbes \$461,187	Organic Nanoparticles for Dual MRI-Guided Therapeutic Selection and Ovarian Cancer Drug Delivery \$316,735
Optimizing Cropping Systems for Resilience to Stress: The Role of Maturity Group Selection and Cover Crops on Yield, Weeds, Insects and Microbes \$461,187	Organic Nanoparticles for Dual MRI-Guided Therapeutic Selection and Ovarian Cancer Drug Delivery \$316,735
Optimizing Cropping Systems for Resilience to Stress: The Role of Maturity Group Selection and Cover Crops on Yield, Weeds, Insects and Microbes \$461,187	Organic Nanoparticles for Dual MRI-Guided Therapeutic Selection and Ovarian Cancer Drug Delivery \$316,735

Ramer-Tait, Amanda Food Science and Technology/	Integrating the Vadose Zone for Improved Management
Nebraska Center for the Prevention of	of Nebraska Ground Water Quality
Obesity Diseases through Dietary Molecules	\$384,227Nebraska Environmental Trust
Epigenetic Regulation of Obesity and Metainflammation by	Snow, DanielNebraska Water Center/
Pad Page and State Asid and its Missachista desired Materialisas	Robert B. Daugherty Water for Food Institute
Red Raspberry Ellagic Acid and its Microbiota-derived Metabolites, the Urolithins	
\$469,949 USDA-NIFA	Reddy, N.R. Jayagopala Veterinary Medicine
¥ 103/3 13	and Biomedical Sciences
Dealer Diele	*TCR Transgenic Models for Dilated Cardiomyopathy
Rasby, Rick Extension	\$402,906NIH-NIAID
Nebraska Extension Implementation Program	Kidambi, Srivatsan Chemical and Biomolecular Engineering
\$627,447 USDA-NIFA	
Bradshaw, Jeffrey Panhandle Research and Extension Center	Kievit, Forrest Biological Systems Engineering
Glewen, Keith Southeast Research and Extension Center	Steffen, DavidVeterinary Medicine and Biomedical Sciences
Green, JodySoutheast Research and Extension Center	
Jackson-Ziems, Tamra	Prevention of Viral Cardiomyopathy and Insulitis by Vaccination
Jhala, Amitkumar Agronomy and Horticulture	\$300,000American Heart Association
Larson, Jonathan Southeast Research and Extension Center	Kidambi, Srivatsan Chemical and Biomolecular Engineering
Ogg, Clyde Agronomy and Horticulture	Steffen, DavidVeterinary Medicine and Biomedical Sciences
Wright, Robert Entomology	
Wu-Smart, Judy Entomology	Riekhof, Wayne Biological Sciences
Tra smart, sady	The Life History and Systems Biology of Fungal-Algal Mutualisms
December 1 - Midwest Decision Continue	\$639,910NASA
Rasmussen, Jennifer Midwest Roadside Safety Facility	Harris, Steven
Determination of Zone of Intrusion Envelopes	
Under MASH Impact Conditions for Rigid Barrier	Herr, JoshuaPlant Pathology
\$400,000National Academy of Sciences-NCHRP	
Bielenberg, Robert Midwest Roadside Safety Facility	Rilett, Laurence Civil and Environmental Engineering/
Faller, RonaldMidwest Roadside Safety Facility	Nebraska Transportation Center
Stolle, CodyMidwest Roadside Safety Facility	Research and Equipment Enhancement
	\$336,544DOT-FHWA through
Ray, Chittaranjan Nebraska Water Center/	Nebraska Department of Transportation
Civil and Environmental Engineering/	Faller, RonaldMidwest Roadside Safety Facility/
	Nebraska Transportation Center
Robert B. Daugherty Water for Food Institute	Nebraska fransportation Center
*Development of Data Bases for Model Development and	December 19 Contact Mildren December 19 Contact Contillar
Field Testing of Crop Models in Midwest Farms	Rosenbaugh, Scott Midwest Roadside Safety Facility
\$250,000USDA-ARS	*31-in. Midwest Guardrail System (MGS) and
	Curb Combination Guidelines for MASH TL-3
Sustaining Agriculture Through Adaptive Management Resilient to	\$600,000DOT-FHWA through
a Declining Ogallala Aquifer and Changing Climate	National Academy of Sciences-NCHRP-TRB
\$933,791 USDA-NIFA through Colorado State University	Bielenberg, RobertMidwest Roadside Safety Facility
Haacker, Erin Earth and Atmospheric Sciences/	Faller, Ronald Midwest Roadside Safety Facility
Robert B. Daugherty Water for Food Institute	Lechtenberg, KarlaMidwest Roadside Safety Facility
Rudnick, Daran West Central Research and Extension Center/	Linzell, Daniel Civil and Environmental Engineering
Robert B. Daugherty Water for Food Institute	Rasmussen, JenniferMidwest Roadside Safety Facility
Schoengold, Karina Agricultural Economics/Robert B. Daugherty	Song, ChungCivil and Environmental Engineering
Water for Food Institute	Steelman, JoshuaCivil and Environmental Engineering
Shaver, Tim West Central Research and Extension Center/	Stolle, CodyMidwest Roadside Safety Facility
Robert B. Daugherty Water for Food Institute	,,
Rossit S. Saugherty Water for Food matitute	

Cost-efficient, TL-2 Bridge Rail for Low-volume Roads \$309,141	*Genomics and Phenomics to Identify Yield and Drought Tolerance Alleles for Improvement of Camelina as a Biofuel Crop \$281,968
*Accelerating Adoption of Water Conservation Technologies and Management Practices Through Innovative Engagement Programming \$850,000	Schmidt, Tyler Utilization of an Advanced Computer Vision Platform to Identify Changes in the Physiological and Behavioral Changes Associated with Illness and Aggressive/Damaging Behavior During the Nursery and Finisher Phase \$301,793Foundation for Food and Agriculture Research through National Pork Board Mote, Benny
Rees, Jennifer	Schnable, James Agronomy and Horticulture/ Center for Plant Science Innovation Rol: FELS: EAGER: Genetic Constraints on the Increase
Samal, Ashok *Know Your Well: A Program for Agricultural Education and FFA Students \$398,880 Nebraska Environmental Trust Kriefels, Matt Agricultural Leadership, Education and Communication Ray, Chittaranjan Civil and Environmental Engineering/ Nebraska Water Center Snow, Daniel Nebraska Water Center Saraf, Ravi Chemical and Biomolecular Engineering High Specificity MicroRNA Microarray Analysis without PCR for Cancer Screening and Research \$490,048 NIH-NCI	of Organismal Complexity Over Time \$299,801
Schachtman, Daniel Agronomy and Horticulture/ Center for Biotechnology/ Center for Plant Science Innovation *The Role of Plant Root Exudates in Shaping Soil Microbial Community Composition and the Influence that has on Nutrient Cycling and Nitrogen Use \$749,812	Monoclinic Gallium Aluminum Oxide Semiconductor Alloys \$430,052

Searls, Mindi	Sear	ls,	Mi	nd	İ
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Earth and Atmospheric Sciences/ Center for Science, Mathematics and Computer Education

GP-IMPACT: Building a Comprehensive
Geoscience Learning Experience
\$400,075
Harwood, David Earth and Atmospheric Sciences
,
Sellmyer, David Physics and Astronomy/
Nebraska Center for Materials and Nanoscience
MRI: Acquisition of a Low-temperature High-magnetic-field
Multifunctional Scanning Probe Microscopy System
\$330,530
Nebraska Center for Materials and Nanoscience
DMREF: Design and Synthesis of Novel Magnetic Materials
\$684,086NSF
Xu, Xiaoshan Physics and Astronomy
Chadwick Dradley Dhysics and Astronomy
Shadwick, Bradley Physics and Astronomy Generation and Control of Self-organized Nonlinear Kinetic
Structures in High-energy Density Plasmas in the Presence of
Intense Magnetic Fields and Ultrashort Laser Pulses
\$632,020
Ψ032,020
High Fidelity Modeling of Laser-Plasma Accelerators
High Fidelity Modeling of Laser-Plasma Accelerators \$524,991
High Fidelity Modeling of Laser-Plasma Accelerators
High Fidelity Modeling of Laser-Plasma Accelerators \$524,991
High Fidelity Modeling of Laser-Plasma Accelerators \$524,991
High Fidelity Modeling of Laser-Plasma Accelerators \$524,991
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High Fidelity Modeling of Laser-Plasma Accelerators \$524,991
High Fidelity Modeling of Laser-Plasma Accelerators \$524,991
High Fidelity Modeling of Laser-Plasma Accelerators \$524,991
High Fidelity Modeling of Laser-Plasma Accelerators \$524,991

Shield, Jeffrey

Mechanical & Materials Engineering/ Nebraska Center for Materials and Nanoscience

Faculty Development Program in Nuclear Engineering
at University of Nebraska-Lincoln \$450,000
Grain and Interface Engineering for High-efficiency Hybrid Perovskite Solar Cells \$450,000DoD-AFOSR
Sim, Chungwook *Spokes: MEDIUM: MIDWEST: Smart Big Data Pipeline for Aging Rural Bridge Transportation Infrastructure (SMARTI) \$476,933 NSF through University of Nebraska at Omaha Faller, Ronald Midwest Roadside Safety Facility Linzell, Daniel Civil and Environmental Engineering Rilett, Laurence Civil and Environmental Engineering Sharif-Kashani, Hamid Electrical and Computer Engineering Song, Chung Civil and Environmental Engineering Wittich, Christine Civil and Environmental Engineering Woldt, Wayne Biological Systems Engineering Wood, Richard Civil and Environmental Engineering Zhu, Jinying Civil and Environmental Engineering
Sinitskii, Alexander Chemistry
Extended Atomically Precise Graphene Nanoribbons and Nanostructures with Improved Electrical Conductivity \$768,496
Extended Atomically Precise Graphene Nanoribbons and Nanostructures with Improved Electrical Conductivity \$768,496
Extended Atomically Precise Graphene Nanoribbons and Nanostructures with Improved Electrical Conductivity \$768,496
Extended Atomically Precise Graphene Nanoribbons and Nanostructures with Improved Electrical Conductivity \$768,496

NebraskaNOYCE Phase II: Investigating the Impact in High-Need Districts \$349,864NSF	
Lai, Yuan-Juang Mathematics/Center for Science, Mathematics and Computer Education Lewis, Jim Mathematics/Center for Science,	
Mathematics and Computer Education Males, Lorraine	
Smyth, Jolene Sociology/ Survey Research and Methodology Using Statistical and Survey Methodology Research to Improve	
or Redesign Surveys Related to Science and Engineering \$460,000	
Snow, Daniel Nebraska Water Center/	
Robert B. Daugherty Water for Food Institute Vadose Zone Nitrate Study for the City of Hastings, NE: 2015	
\$299,982	
Robert B. Daugherty Water for Food Institute	
*Anticipating Social Unrest Using Integrated Model- and Data-Driven Approaches: The Impact of Socio-Demographic and Environmental Factors in Post-Colonial Nations \$521,451 DoD-National Geospatial Intelligence Agency through	
*Anticipating Social Unrest Using Integrated Model- and Data-Driven Approaches: The Impact of Socio-Demographic and Environmental Factors in Post-Colonial Nations	
*Anticipating Social Unrest Using Integrated Model- and Data-Driven Approaches: The Impact of Socio-Demographic and Environmental Factors in Post-Colonial Nations \$521,451 DoD-National Geospatial Intelligence Agency through Citadel University Hayes, Michael Natural Resources Samal, Ashok Computer Science and Engineering Werum, Regina Sociology Computational Creativity to Improve Computer Science Education for	
*Anticipating Social Unrest Using Integrated Model- and Data-Driven Approaches: The Impact of Socio-Demographic and Environmental Factors in Post-Colonial Nations \$521,451 DoD-National Geospatial Intelligence Agency through Citadel University Hayes, Michael Natural Resources Samal, Ashok Computer Science and Engineering Werum, Regina Sociology	
*Anticipating Social Unrest Using Integrated Model- and Data-Driven Approaches: The Impact of Socio-Demographic and Environmental Factors in Post-Colonial Nations \$521,451 DoD-National Geospatial Intelligence Agency through Citadel University Hayes, Michael Natural Resources Samal, Ashok Computer Science and Engineering Werum, Regina Sociology Computational Creativity to Improve Computer Science Education for CS and non-CS Undergraduates \$873,250 NSF Ingraham, Elizabeth Art, Art History and Design Moore, Brian Music Ramsay, Stephen English	

*MASH Testing of Sing \$750,000	Civil and Environmental Engineering le Sign Supports (Florida)DOT-FL DOT through raska Department of TransportationMidwest Roadside Safety FacilityMidwest Roadside Safety FacilityMidwest Roadside Safety FacilityMidwest Roadside Safety FacilityMidwest Roadside Safety Facility
Grazing Land Monitoring Coop \$250.000	ndle Research and Extension Center erative for Adaptive Management USDA-NRCS ntral Research and Extension Center
Similarity as a Process Mo \$655,576 Soh, Leen-Kiat	Psychology/ enter for Brain, Biology and Behavior odel of Intertemporal Choice
A Decision Tool and Syner \$496,646USDA- Heemstra, JillNorth	Biological Systems Engineering atrient Recycling: rgistic Innovative Technology NIFA through University of Arkansas east Research and Extension District Biological Systems Engineering
In-situ Electron Microscopy and Reconfiguration of 31 \$534,231	Mechanical & Materials Engineering of DNA-guided Self-assembly D Nanocrystal SuperlatticesDoD-ARO Electrical and Computer Engineering
Semiconductor Nanow Chemical Transformation \$500,000 NSF	ls by Integration of ires and Layered Crystals: is and Functional Properties Electrical and Computer Engineering
*Nanowires from Layered van de Tuning Structure and Function \$520,000	Electrical and Computer Engineering or Waals Crystals: Opportunities for in 1D-2D Hybrid NanostructuresNSF Mechanical & Materials Engineering

*Riemann Surfaces in Layered Van der Waals Nanowires:
Precision Twist Moires, Nanoscale Solenoids,
and Screw Dislocation Spin Orbit Coupling
\$496.037 DoD-ONR
Sutter, Eli Mechanical & Materials Engineering
outer, in the state of the stat
Svoboda, Mark Natural Resources
MENAdrought Empowering and Enhancing Drought Management
Systems in the Middle East-North Africa (MENA) Region
\$362,226
International Water Management Institute
Bathke, Deborah
Brozovic, Nicholas Robert B. Daugherty Water for Food Institute
Hayes, Michael
Jedd, Theresa
Knutson, Cody
Neale, Christopher Robert B. Daugherty Water for Food Institute
Nedie, Christopher Robert B. Daugherty Water for Food histitute
Torry Deniemin Machanical C Matariala Engineering
Terry, Benjamin Mechanical & Materials Engineering
*Fielding Proof of Concept: En Route Care Acute Respiratory Distress
System (ARDS) Mitigation Using Oxygenated Microbubbles (OMB)
\$772,639 DoD-Offutt Air Force Base-STRATCOM through
National Strategic Research Institute
*Peritoneal Oxygen Delivery for Treatment of
Acute Respiratory Distress Syndrome
\$441,472NIH-NHLBI through University of Colorado
\$441,472 on Colorado
Development of a Gastrointestinal Tissue Attachment Mechanism
\$619,776 Progenity, Inc.
Ψο 15,7,7 ο 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1
Tsymbal, Evgeny Physics and Astronomy/
Nebraska Center for Materials and Nanoscience
Partnership for Research and Education in Multiferroic
Polymer Nanocomposites between Tuskegee University
and University of Nebraska-Lincoln
\$627,217NSF through Tuskegee University
Dowben, Peter
Nebraska Center for Materials and Nanoscience
Ducharme, Stephen
Nebraska Center for Materials and Nanoscience
Shield, JeffreyMechanical & Materials Engineering/
Nebraska Center for Materials and Nanoscience
representation for infections and reality

Turner, Joseph Mechanical & Materials Engineering *MRI: Acquisition of an X-Ray Computed Tomography System at the University of Nebraska-Lincoln for Advancing Multidisciplinary Research and Education in the Great Plains Region \$562,803
*Integrated Analysis of the Cell Biological, Biomechanical, and Physiological Dynamics of Stomatal Guard Cells in Plants \$301,395
*STTR: Ultrasonic Method to Quantify Ablative Material Liners \$300,000 DoD-NAVSEA through Intelligent Automation, Inc.
PCC-3: Non-Destructive Testing (NDT) Microstructural Response Characterization and Impact \$500,000
An Integrated Experimental and Computational Approach to Discover Biomechanical Mechanisms of Leaf Epidermal Morphogenesis \$385,927
Twidwell, Dirac Jr. *Enhancing Livestock Production from Rangelands in the Great Plains \$745,202USDA-NIFA through Texas A & M Univ-Texas AgriLife Keshwani, JennyBiological Systems Engineering
Juniper Invasions and Landscape Intervention Potential:

Umstadter, Donald	Physics and Astronomy	Vuran, Can Computer Science and Engineering
*Controlled Releas		NeTS: Small: Connected Barriers: Vehicle-to-barrier Communication
Nuclear Isomers by		and Networking for Single-vehicle Crash Safety Facility
\$486,275	DoD-ARO	\$319,513
Banerjee, Sudeep	Physics and Astronomy	Faller, Ronald Midwest Roadside Safety Facility
Golovin, Grigory	Physics and Astronomy	Stolle, CodyMidwest Roadside Safety Facility
Ultra-low Emittano		SpecEES: CoSeC-RAN: Cognitive Secure Cloud RAN
from Laser-Plasmo		for Efficient Spectrum Sharing
\$374,844		\$435,399NSF
Banerjee, Sudeep	Physics and Astronomy	Batur, DemetSupply Chain Management and Analytics
Chen, Shouyuan	Physics and Astronomy	Ryan, Jennifer Supply Chain Management and Analytics Yan, Qiben
Non-Bon Bondon Markham	Footband Atmospheric Octobros	tan, QibenComputer Science and Engineering
Van Den Broeke, Matthew		NeTS: Small: 2G for UG: High Data-rate and Long-range
Aeroecology as a Test-Bed for I		Communication Techniques for Wireless Underground Networks
\$391,463 N	SF through University of Oklahoma	\$450,000
B	m	Irmak, Suat Biological Systems Engineering
van Dijk, Karin	Biochemistry	
Engaging the Next Gen		Wagner, William Biological Sciences
\$599,096		The Consistency of Behavioral Plasticity
Couch, Brian		Across Different Selective Contexts
Roston, Rebecca		\$512,998NSF
Roston, Rebecca	blochenistry	
Vu, Hiep Animal Sci	ence/Nebraska Center for Virology	Walia, Harkamal Agronomy and Horticulture
*Development of a Broa		UNL-VBC Collaboration: Using Plant Phenomics
Against Swine I		to Capture Dynamic Growth Responses in Maize
\$500,000		\$521,500
4000,000		
Development of a Broadly Pro	otective Diva Marker Vaccine	ABI Innovation: A Computational Framework for Integrating Image
Development of a Broadly Pro against Porcine Reproductive a	nd Respiratory Syndrome Virus	Informatics with Transcriptomics for Discovering Spatiotemporally
against Porcine Reproductive at \$489,934	nd Respiratory Syndrome Virus USDA-NIFA	Informatics with Transcriptomics for Discovering Spatiotemporally Resolved Regulatory Gene Networks in Plants
against Porcine Reproductive a	nd Respiratory Syndrome Virus USDA-NIFA Medicine and Biomedical Sciences/	Informatics with Transcriptomics for Discovering Spatiotemporally Resolved Regulatory Gene Networks in Plants \$563,801NSF
against Porcine Reproductive at \$489,934	nd Respiratory Syndrome Virus USDA-NIFA	Informatics with Transcriptomics for Discovering Spatiotemporally Resolved Regulatory Gene Networks in Plants \$563,801
against Porcine Reproductive at \$489,934 Osorio, FernandoVeterinary N	nd Respiratory Syndrome Virus USDA-NIFA Medicine and Biomedical Sciences/ Nebraska Center for Virology	Informatics with Transcriptomics for Discovering Spatiotemporally Resolved Regulatory Gene Networks in Plants \$563,801
against Porcine Reproductive at \$489,934	nd Respiratory Syndrome Virus	Informatics with Transcriptomics for Discovering Spatiotemporally Resolved Regulatory Gene Networks in Plants \$563,801
against Porcine Reproductive at \$489,934	nd Respiratory Syndrome Virus	Informatics with Transcriptomics for Discovering Spatiotemporally Resolved Regulatory Gene Networks in Plants \$563,801
against Porcine Reproductive at \$489,934	nd Respiratory Syndrome Virus	Informatics with Transcriptomics for Discovering Spatiotemporally Resolved Regulatory Gene Networks in Plants \$563,801
against Porcine Reproductive at \$489,934	nd Respiratory Syndrome Virus	Informatics with Transcriptomics for Discovering Spatiotemporally Resolved Regulatory Gene Networks in Plants \$563,801
against Porcine Reproductive at \$489,934	nd Respiratory Syndrome Virus	Informatics with Transcriptomics for Discovering Spatiotemporally Resolved Regulatory Gene Networks in Plants \$563,801
against Porcine Reproductive at \$489,934	nd Respiratory Syndrome Virus	Informatics with Transcriptomics for Discovering Spatiotemporally Resolved Regulatory Gene Networks in Plants \$563,801
against Porcine Reproductive at \$489,934	nd Respiratory Syndrome Virus	Informatics with Transcriptomics for Discovering Spatiotemporally Resolved Regulatory Gene Networks in Plants \$563,801
against Porcine Reproductive at \$489,934	nd Respiratory Syndrome Virus	Informatics with Transcriptomics for Discovering Spatiotemporally Resolved Regulatory Gene Networks in Plants \$563,801
against Porcine Reproductive at \$489,934	nd Respiratory Syndrome Virus	Informatics with Transcriptomics for Discovering Spatiotemporally Resolved Regulatory Gene Networks in Plants \$563,801
against Porcine Reproductive at \$489,934	nd Respiratory Syndrome Virus	Informatics with Transcriptomics for Discovering Spatiotemporally Resolved Regulatory Gene Networks in Plants \$563,801

Manage	Agricultural Economics nern Plains Regional Farm Business ment and Benchmarking Partnership	White, Brett Role of GnRH-II and Its \$480,000	Animal Science Receptor in Testicular Function of SwineUSDA-NIFA
Wang, Jian Bridging Micro Measurements		Processes: An Integro Crystallography \$603,881	Biachemistry r New Stereoselective and Stereodynamic ated Chemistry -Bioengineering- X-Ray Molecular Dynamics Approach
	DOE		Chemical and Biomolecular Engineering
of Twin-To \$388,037 Plasticity of Hig \$341,116 Wang, Lily Evidence-Based Inte and Their \$998,433 Bovaird, James Lau, Josephine	Durham School of Architectural Engineering & Construction EPA Educational Psychology Durham School of Architectural Engineering & Construction EPA Educational Psychology Durham School of Architectural Engineering & Construction Durham School of Architectural Engineering & Construction Durham School of Architectural Engineering & Construction	with Plant In \$599,999	Plant Pathology conisms Integrating Fungal Growth nate Immunity Suppression
*Neural Pre in	Special Education and Communication Disorders/ Center for Brain, Biology and Behavior/ Nebraska Center for Research on Children, Youth, Families and Schools dictors of Speech Perception Outcomes Adults with Cochlear Implants	\$281,322Nebraska Wolf, Marilyn *SHF: Sn of Attack-Res	evention Surveillance System
Weller, Gurtis Enhancing Low-ma		Wood, Charles Comparative Vir \$843,579	Biological Sciences/Biochemistry/ Nebraska Genter for Virology ology Research Training ProgramNIH-NIAIDPlant Pathology

	Agronomy and Horticulture ent to Speed Degradation Mulches in Soil
\$499,718	USDA-NIFA Agronomy and Horticulture
State Coord	Special Education and Communication Disorders strum Disorders Network, dinator Project Nebraska Department of Education
	Entomology for Beginning Beekeeping FarmersUSDA-NIFA
Mucosal Deliver Ebola Inhibitor Scytov	Medicine and Biomedical Sciences/ Nebraska Center for Virology ry and Retention of virin Using Lactobacillus NIH-NIAID
\$461,983	Food Science and Technology Istainability and Fruit QualityUSDA-AMS through Nebraska Department of AgricultureStatisticsFood Science and Technology
Improving Aronia Berry Su \$461,983	stainability and Fruit QualityUSDA-AMS through Nebraska Department of AgricultureStatistics
Improving Aronia Berry Su \$461,983	Istainability and Fruit Quality
Improving Aronia Berry Su \$461,983	Istainability and Fruit Quality

Microstructure and Strain Effects on Ferroelectric and Transport Properties of HfO2-based Thin Films \$519,740
Yan, Qiben Computer Science and Engineering SaTC: CORE: Small: URadio: Towards Secure Smart Home IoT Communication Using Hybrid Ultrasonic-RF Radio \$499,999
Yang, Jinliang Rescuing the Fixed Deleterious Alleles for Genome-Enabled Micronutrients Improvement in Maize \$500,000 USDA-NIFA Waters, Brian Agronomy and Horticulture
Yang, Ruiguo Cell-Cell Adhesion Mechanics and Mechanotransduction at the Single Cell Level \$439,584 Lim, Jung Yul Mechanical & Materials Engineering
Yang, Yiqi Textiles, Merchandising and Fashion Design/Biological Systems Engineering *Protein Fibers from Chicken Feathers for Textile Applications via Engineered Pilot-Scale Production \$464,434
Biological Systems Engineering *Protein Fibers from Chicken Feathers for Textile Applications via Engineered Pilot-Scale Production

Yoder, Aaron	Biological Systems Engineering
\$540,000	Nebraska AgrAbilityUSDA-NIFAWest Central Research and Extension Center
Harris-Broomfield, Susa	an West Central Research
Riley, Mark	and Extension Center Biological Systems Engineering
Yu, Bin	Biological Sciences/
in the 3' Mat	Center for Plant Science Innovation Inctional Mechanism of the DSP1 Complex Euration of Plant Small Nuclear RNAsNSF
Zhang, Chi	
Geophysical Ar	Computer Science and Engineering A: Optimal Data Layout for Scalable nalysis in a Data-Intensive EnvironmentNSF
for E	Scalable Visual Analytics Framework xascale Scientific Simulations
\$405,570 · · · · · · · · · ·	
	Plant Pathology mics of Pathogen Resistance in SwitchgrassUSDA-ARS through DOE
Yuill, David	Durham School of Architectural Engineering & Construction
A Field Stud	dy to Characterize Fault Prevalence lesidential Comfort Systems
	DOE
Zempleni, Janos	Nutrition and Health Sciences/ Nebraska Center for the Prevention of
\$500,000	Obesity Diseases through Dietary Molecules Evolution of Antibiotic-Resistant Gut Pathogens
	f an Exosome and Cargo Tracking Mouse

Nutritive Value and Potential Health Benefits of LOL-Exosomes \$257,886	
Zeng, Xiao Chemistry	
Exploration of Low-Dimensional Gas Clathrate Hydrates	
\$256,188	
Shoung, Shin E (Burry)	
Zhu, Jinying Civil and Environmental Engineering Online Monitoring System for Concrete Structures	
Affected by Alkali-Silica Reaction (ASR)	
\$800,000 DOE	
Zink, Robert Natural Resources/Biological Sciences/	
Zink, Robert Natural Resources/Biological Sciences/ University of Nebraska State Museum	
University of Nebraska State Museum *Genetic Structure and Function of Nebraska Wildlife	
University of Nebraska State Museum	
*Genetic Structure and Function of Nebraska Wildlife \$257,421	
*Genetic Structure and Function of Nebraska Wildlife \$257,421	
*Genetic Structure and Function of Nebraska Wildlife \$257,421	
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*Genetic Structure and Function of Nebraska Wildlife \$257,421	
*Genetic Structure and Function of Nebraska Wildlife \$257,421	

Early Career Awards

Active awards, July 1, 2019–June 30, 2020 * Indicates new in 2019–2020

NSF CAREER Grants

National Science Foundation CAREER grants are awarded only to untenured junior faculty. These grants recognize research and education "of the highest quality and in the broadest sense." CAREER grants are unique in requiring a four- to five-year plan for the scientist's development as both a researcher and an educator.



Alexandrov, Vitali



Dishari. Shudipto

Chemical and Biomolecular Engineering
CAREER: Confined Ionomeric Systems
and Imaging of Ionic Distribution
\$591,000NSF



Duncan, Brittany



Guo, Jiantao



Li, Xu

Civil and Environmental Engineering
CAREER: Effects of Nutrients on
Antimicrobial Resistance and Subsistence
\$400,000NSF



Libault, Marc



Louis, Joe

Entomology
CAREER: Deciphering Sorghum Resistance
Mechanisms to Phloem-Feeding Aphids
\$1,513,415NSF



Males, Lorraine



Morin, Stephen



Neta. Maital

Psychology
CAREER: Functional Brain Networks
Mediating Positivity Bias in Healthy Aging
\$756,711.....NSF



Obata, Toshihiro





Qu, Liyan
Electrical and Computer Engineering
CAREER: Adjustable-Voltage-Ratio
Magnetoelectric Transformer: A New Voltage
Conversion and Control Device for Smart Grids
\$500.000



Rao, Prahalada
Mechanical & Materials Engineering
CAREER: Smart Additive Manufacturing
\$649,731NSF











Sinitskii, Alexander
Chemistry
CAREER: Narrow Graphene Nanoribbons with
Tunable Electronic Properties
\$538,477NSF







Xu, Xiaoshan
Physics and Astronomy
CAREER: Hexagonal Ferrite Thin Films for the HighTemperature Magnetoelectric Memory Effect
\$591,256NSF



Yin, Yanbin
Nebraska Food for Health Center
CAREER: Evolutionary Genomics of Enzymes for
Complex Carbohydrate Metabolism
\$353,179NSF







Department of Energy Early Career Research Program

DOE's Early Career Research Program supports the development of individual research programs of outstanding scientists early in their careers and stimulates research careers in the disciplines supported by the DOE Office of Science.



Dishari, Shudipto
Chemical and Biomolecular Engineering

*EARLY CAREER: Porin Inspired Ionomers with Sub-NM Gated Ion Channels for High Ion Conductivity and Selectivity

\$750,000 DOE



Kovalev, Alexey
Physics and Astronomy

Non-Collinear Magnetism and Dynamic Effects
in Dzyaloshinskii-Moriya Magnets

Office of Naval Research Young Investigator Program

The Office of Naval Research Young Investigator Program supports academic scientists and engineers who are in their first or second full-time tenure-track academic appointment and who show exceptional promise for doing creative research.



Argyropoulos, Christos

Arts and Humanities Awards \$250,000 or More

Active awards, July 1, 2019–June 30, 2020

Cohen, Matt

English/Center for Digital Research in the Humanities



With a nearly \$350,000 grant from the National Endowment for the Humanities, Matt Cohen, professor of English, and Kenneth Price, Hillegass University Professor of American literature, are rebuilding the Walt Whitman Archive website, implementing a modern framework and repackaging site content for easier reuse. The long-term goal is

to enhance the archive's accessibility and sustainability by making it easier for users to search and organize materials on the site, which, at nearly 25 years old, is the leading resource for Walt Whitman scholars. The team is improving the website's digital architecture by changing the programming framework; developing a machine-readable interface for the website's code, images and metadata; revising files to improve the metadata; and strengthening existing metadata through a new search engine. The archive is published by the Center for Digital Research in the Humanities.

Charles Chesnutt: A Digital Archive
\$292,627NEH
5/1/19 - 4/30/21
Price, Kenneth English/Center for Digital
Research in the Humanities

Through a grant from the National Endowment for the Humanities, the existing Charles Chesnutt Digital Archive will be redesigned, and more works by the African-American author will be added. The project, a collaboration between Nebraska and The New School in New York City, is directed at Nebraska by Matt Cohen, professor of English, and Kenneth Price, Hillegass University Professor of American literature and co-director of CDRH. The project is edited by Stephanie Browner of The New School. Chesnutt is a major figure in American literary studies and was a profound thinker about race and justice in the United States. He wrote six book-length works, more than 80 stories, and many essays and speeches during his career.

Jacobs, Margaret

History/Center for Digital Research in the Humanities



With funding from the National Endowment for the Humanities and the Council on Library and Information Resources, Margaret Jacobs, professor of history and director of the Women's and Gender Studies program, and Elizabeth Lorang, associate professor of University Libraries, are compiling, digitizing and making accessible records and other

materials from the Genoa Indian Industrial School in Nebraska, one of more than 150 boarding schools designed to assimilate indigenous American people into Euro-American culture near the end of the 19th century. They are working closely with Nancy Carlson and the Genoa U.S. Indian School Foundation in Genoa. The university's Center for Digital Research in the Humanities hosts the Genoa Indian School Digital Reconciliation Project. In order to move the project forward with sensitivity and respect, Jacobs and Lorang are working with an advisory council that includes representatives from the Ponca, Pawnee, Omaha and Winnebago nations and UNITE, the university's Native American student group.

^{*} Indicates new in 2019-2020

Jagodinsky, Katrina

History/Center for Digital Research in the Humanities

*Petitioning for Freedom:
Habeas Corpus and Liberty in the American West
\$460,410.......NSF
6/1/20 – 5/31/23



With a grant from the National Science
Foundation, historian Katrina Jagodinsky is
exploring how various marginalized groups –
immigrants, women, and indigenous and
enslaved people, for example – used habeas
corpus, a longstanding legal principle enabling
prisoners to challenge the legality of their
detentions, to claim freedom and establish

their rights between 1812 and 1924. In collaboration with the Center for Digital Research in the Humanities, Jagodinsky, the Susan J. Rosowski Associate Professor of History, is developing a first-of-its-kind digital database archiving roughly 6,000 previously unpublished habeas petitions, which will be searchable by demographic

Jewell, Andrew Center for Digital Research in the Humanities



The National Endowment for the Humanities is supporting the work of Andrew Jewell, professor of University Libraries in the Center for Digital Research in the Humanities, to digitally publish the complete correspondence of Willa Cather on the open-access Willa Cather Archive (cather.unl.edu). Publication on the archive will allow interoperation of the

edition with other Cather documents (photographs, texts, published scholarship and archival materials) and wide accessibility as data for humanities scholars doing various kinds of research. When finished, The Complete Letters of Willa Cather will bring unprecedented access to the revealing personal voice of one of the most important figures in American literary history and will dramatically expand the body of Cather materials available to scholars, teachers, students and general readers.

Kooser. Ted

American Life in Poetry Project



The Poetry Foundation, in partnership with the Library of Congress, supports the American Life in Poetry Project, an initiative of Ted Kooser, the 2004-2006 Poet Laureate Consultant in Poetry to the Library of Congress. American Life in Poetry is a free weekly column for newspapers and online publications featuring a poem written by a

English

contemporary American poet, chosen by Kooser, with a brief introduction written by Kooser. The sole mission of this project is to promote poetry. The Poetry Foundation funds the project, with administrative support provided by the English department, where the project office is located.

Lorang. Elizabeth Center for Digital Research in the Humanities

Extending Image Analysis for Archival Discovery (Aida)
\$462,317IMLS
12/1/16 - 11/30/20
Soh, Leen-KiatComputer Science and Engineering



The Image Analysis for Archival Discovery (Aida) research team investigates the use of image analysis to identify, describe and retrieve information from digital libraries and other digitized collections. Using machine learning, Elizabeth Lorang, associate professor of University Libraries, and colleagues in the Center for Digital Research in the Humanities

are building an intelligent computational system that can recognize visual cues in digital images and identify similar content in new images. Digital images created by libraries, archives, museums and other groups represent a largely underutilized digitized cultural record – particularly digital images of textual materials. One goal of the project is to develop a new digital collection using the extracted content.

Price, Kenneth

English/Center for Digital Research in the Humanities



Kenneth Price, Hillegass University Professor of American literature and co-director of the Center for Digital Research in the Humanities, directs the Walt Whitman Archive, a digital archive that makes Whitman's vast work easily and conveniently accessible to scholars, students, and general readers alike. With support from the National Endowment for the

Humanities, the first edition of *Leaves of Grass*, along with the constellation of draft documents that contributed to it, has been developed into a digital variorum from manuscript and notebook beginnings through its many variations in print. The goal of the project is to advance understanding of this paradigm-shifting book and to enable future scholarship by drawing on some of the opportunities for representation unique to digital editing.

Shear, Donna

University of Nebraska Press

Recovering Languages and Literacies of the Americas:
A Collaborative Initiative

\$781,900 Andrew W. Mellon Foundation 1/3/11 – 12/31/21



This \$781,900 grant from the Andrew W. Mellon Foundation gives the University of Nebraska Press, along with the University of Oklahoma Press and the University of Texas Press, resources to help linguistic scholars publish indigenous language grammars and dictionaries, literacy studies, ethnographies and other linguistic monographs. Twenty-seven

books – nine from each press – will be published on the grammar and literacy of endangered languages. The initiative also aims to generate broader interest in linguistic monographs and to find more efficient, cost-effective ways to produce monographs. These publications are important resources for academics in the fields of linguistics, indigenous studies and social sciences, and to communities wishing to preserve their language and culture, said Donna Shear, University of Nebraska Press director, who is leading this collaboration.

Walter, Katherine

University Libraries/Center for Digital Research in the Humanities



The Nebraska Digital Newspaper Project selects, digitizes and provides access to historically significant Nebraska newspapers, as well as ethnic titles, representing geographic, political, and social breadth. These titles will be accessible through Chronicling America at the Library of Congress and through Nebraska Newspapers, our state newspaper site.

Arts and Humanities Awards \$50,000 to \$249,999

Active awards, July 1, 2019–June 30, 2020

^{*} Indicates new in 2019-2020

Cohen, Matt	English/Center for Digital Research in the Humanities
	English Digital ProjectFord FoundationUniversity Libraries
\$75,000	Center for Great Plains Studies Plains Black Homesteaders
Edwards, Richard African American Homestea \$198,986	Center for Great Plains Studies ders Historic Resource Study
Hoff, Michael Antiochia ad Cragum Ex	Art, Art History and Design cavations: 2019 Season Merops Foundation
Homestead, Melissa The Creative Partnership of \$50,400	English Willa Cather and Edith LewisNEH
Text Mining Establishing the Foundar \$88,233	

	Institute for Ethnic Studies/History/ for Digital Research in the Humanities
The United States, Africa ar	rica from America: ad the New Imperialism, 1862-1919NEH
\$236,771IMLS to Barker, Bradley	Extension Transforming Rural Communities through Nebraska Library CommissionExtension . Mechanical & Materials Engineering
Price, Kenneth	English/Center for Digital Research in the Humanities
\$59,561 Nation	nitman's Old-Age Correspondence nal Historical Publications and Records Commission through University of Iowa
McMullen, Kevin	English/Center for Digital Research in the Humanities
Richards-Rissetto, Heather	Anthropology/Center for Digital Research in the Humanities
3D WebĞIS of th	nhancing the Open Source ne MayaArch3D Project
Dalziel, KarinCenter	
Thomas, William	History/Center for Digital Research in the Humanities
\$200,000	ming American Slavery and Freedom
Center	s, Merchandising and Fashion Design/ for Digital Research in the Humanities English/Institute for Ethnic Studies/
	for Digital Research in the Humanities
From Prairie to Palace: B	for Digital Research in the Humanities uffalo Bill's Wild West in Europe through Buffalo Bill Center of the West

Arts and Humanities Awards \$5,000 to \$49,999

Active awards, July 1, 2019–June 30, 2020

^{*} Indicates new in 2019-2020

Women's Rig	Education and Human Sciences the 19th Amendment: ghts Here and Abroad
	Center for Great Plains Studies and Culture in the Great Plains
*400 Years of A Black Homeste	Center for Great Plains Studies frican American History: ading in the Great Plains National Alliance of Faith and Justice
	Lied Center for Performing Arts S Arts for ALLWoods Charitable Fund
Bill T. Jones and Ne	through Movement: ebraska's Global Community NEA
*Lincoln Youth Symphony Lear \$5,000	ning with St. Louis Symphony Orchestra NEA through Mid-America Arts Alliance
	History n of the PawneesHumanities Nebraska
Education in a Changing \$41,906	History The of the Historical Record: Humanities Climate for Knowledge Production Andrew W. Mellon Foundation through University of Illinois aching, Learning and Teacher Education History

Nicholas, Claire Textiles, Merchandising and Fashion Design Crafting Culture in the Middle of Everywhere: An Arts-Based Project on Intercultural Empathy Building and Entrepreneurship \$9,561
Ramsay, Stephen English/Center for Digital Research in the Humanities *Digital Notation Across the Movement-Based Arts
\$15,800 NEH Pytlik Zillig, BrianCenter for Digital Research in the Humanities
*Academic Librarian Curriculum Developers: Building Capacity to Integrate Information Literacy Across the University (ALCD) \$33,480 Institute of Museum and Library Services through Purdue University
Shank, Nancy Lincoln Reads Aloud: A Collective Impact Model \$15,666 Institute of Museum and Library Services through Lincoln Community Foundation
Shear, Donna University of Nebraska Press Early American Regions
\$30,100
Thomas, William *The Bell Affair: A Film Reframing American Slavery and Freedom \$8,399
Yang, Shuling Coaching Preschool Teachers to Ask Higher-Level Questions in Dialogic Reading \$5,000
Zeleny, Michael *NE 150 to N 150 Chancellor's Office
\$15,000



Pioneering Partnerships for Innovation

NUtech Ventures' mission is to facilitate the commercialization and practical use of innovations generated through the research activities at the University of Nebraska–Lincoln. We do this by identifying, evaluating, protecting, marketing and licensing the university's intellectual property to promote economic development and improve the quality of life.

Patents Issued in 2019-2020

Recognition for faculty and other university personnel who received patents for their inventions July 1, 2019–June 30, 2020

Thomas E. Clemente, Aleel K. Grennan, Donald Ort, Stephen Patrick Moose, Damla D. Bilgin, Fredy Altpeter, Stephen P. Long

Agronomy and Horticulture

Title: Plants Having Increased Biomass and Methods for Making the

Same

Date: 3/3/2020 **Number:** 10577617 **Country:** United States

Stephen G. DiMagno, Bao Hu

Chemistry

Title: Radioiodinated Compounds

Date: 8/2/2019 **Number:** 6563401 **Country:** Japan

Date: 9/19/2019

Number: 2015237282 Country: Australia

Concetta C. DiRusso, Nishikant Wase

Biochemistry

Title: Compounds for Increasing Lipid Synthesis and Storage

Date: 7/16/2019 **Number:** 10351883 **Country:** United States

Peter A. Dowben, Xia Hong, Jonathan P. Bird, Christian Binek, Dmitri E. Nikonov, Kang L. Wang

Physics and Astronomy

Title: Magneto-Electric Logic Devices Using Semiconductor Channel

with Large Spin-Orbit Coupling

Date: 7/23/2019 Number: 10361292 Country: United States

Patrick H. Dussault, Wantanee Sittiwong, Robert Powers, Raul Barletta

Chemistry, Veterinary Medicine and Biomedical Sciences *Title:* Amphiphilic Cyclobutenes and Cyclobutanes

Date: 1/21/2020 **Number:** 10538475 **Country:** United States

Shane M. Farritor, Thomas Frederick, Joe Bartels

Mechanical & Materials Engineering

Title: Methods, Systems and Devices Relating to Surgical End

Effectors

Date: 7/16/2019 Number: 10350000 Country: United States

Shane M. Farritor, Amy Catherine Lehman, Mark Rentschler, Nathan Wood, Jason James Dumpert, Dmitry Oleynikov

Mechanical & Materials Engineering

Title: Multifunctional Operational Component for Robotic Devices

Date: 8/13/2019 Number: 10376323 Country: United States

Shane M. Farritor, Thomas Frederick, Joe Bartels, Jack Mondry, Eric Markvicka

Mechanical & Materials Engineering

Title: Methods, Systems, and Devices Related to Robotic Surgical

Devices, End Effectors and Controllers

Date: 3/31/2020 **Number:** 10603121 **Country:** United States

Shane M. Farritor, Jason James Dumpert, Yutaka Tsutano, Erik Mumm, Philip Chu, Nishant Kumar

Mechanical & Materials Engineering, Computer Science

Title: Robotic Devices with On-Board Control and Related Systems

and Devices

Date: 4/21/2020

Number: 10624704

Country: United States

Thomas Frederick, Shane M. Farritor, Eric Markvicka, Dmitry Oleynikov

Mechanical & Materials Engineering

Title: Robotic Device with Compact Joint Design and Related Systems

and Methods

Date: 8/13/2019

Number: 10376322

Country: United States

Ming Han, Matthew Reinke

Electrical and Computer Engineering

Title: Fiber Optic Bolometer

Date: 7/23/2019 Number: 10359316 Country: United States

Ming Han, Weilin Hou, Guigen Liu, Qiwen Sheng

Electrical and Computer Engineering

Title: Fiber-Optic Temperature and Flow Sensor System and Methods

Date: 12/31/2019 **Number:** 10520355 **Country:** United States

Edward N. Harris, Jian Liu, Robert J. Linhardt, Yongmei Xu

Biochemistry

Title: Reversible Heparin Molecules and Methods of Making and

Using the Same Date: 3/3/2020 Number: 6670235 Country: Japan

Mark Alan Helle, Chin Li "Barry" Cheung

Chemistry

Title: Methods of Making and Using Lignin Derivatives

Date: 1/14/2020 **Number:** 10533031 **Country:** United States

Jinsong Huang, Yanjun Fang

Mechanical & Materials Engineering

Title: Narrow Band Perovskite Single Crystal Photodetectors with

Tunable Spectral Response

Date: 4/14/2020 **Number:** 10622161 **Country:** United States

Jinsong Huang, Liang Shen, Fawen Guo

Mechanical & Materials Engineering

Title: Narrowband Nanocomposite Photodetector

Date: 5/12/2020 **Number:** 10651409 **Country:** United States

Jinsong Huang, Baodong Mao, Christopher L. Exstrom

Mechanical & Materials Engineering, Chemistry (UNK)

Title: Iron Pyrite Nanocrystals

Date: 6/9/2020 **Number:** 10680125 **Country:** United States

Sally Mackenzie, Roberto De la Rosa Santamaria

Agronomy and Horticulture, Center for Plant Science Innnovation

Title: Plants with Useful Traits and Related Methods

Date: 7/9/2019 Number: 10344340 Country: United States

Date: 4/7/2020

Number: BR1120130283068

Country: Brazil

Sally Mackenzie, Kamaldeep S. Virdi

Agronomy and Horticulture, Center for Plant Science Innnovation *Title*: Methods and Compositions for Obtaining Useful Plant Traits

Date: 7/30/2019 **Number:** 10364438 **Country:** United States

Eric Markvicka, Thomas Frederick, Shane M. Farritor, Jack Mondry, Joe Bartels

Mechanical & Materials Engineering

Title: Local Control Robotic Surgical Devices and Related Methods

Date: 11/12/2019 **Number:** 10470828 **Country:** United States

Dimitrios Miserlis, Suzanne Higgins, Abby Kelly, Max Hopkins Twedt. Kim Cluff

Biological Systems Engineering

Title: System and Method for Monitoring Pleural Fluid

Date: 10/29/2019 **Number:** 10456063 **Country:** United States

George Morcous, Raed Tawadrous

Architectural Engineering, Construction Management *Title:* Mechanical Connection for Concrete Structures

Date: 12/17/2019 **Number:** 10508434 **Country:** United States

Nicole Buan Murphy, Karrie A. Weber, Jared T. Aldridge, Sean R. Carr

Biochemistry, Biological Sciences

Title: Production of Isoprene by Methane-Producing Archaea

Date: 1/14/2020 **Number:** 10533192 **Country:** United States

Carl A. Nelson, Dmitry Oleynikov, Benjamin S. Terry, Hossein Dehghani, Prithviraj (Raj) Dasgupta, Abolfazl (Sina) Pourghodrat

Mechanical & Materials Engineering

Title: Disposable Fluidic Self-Propelling Robot for Traversing a Tubular

Passage

Date: 9/24/2019 Number: 10420916 Country: United States

Carl A. Nelson, Judith M. Burnfield, Peter Shu, Thad Buster, Adam Taylor

Mechanical & Materials Engineering

Title: ICARE: Intelligently Controlled Assistive Rehabilitation Elliptical

Machine

Date: 1/14/2020

Number: BR112012008610

Country: Brazil

Benjamin J. Pavlik, Paul Blum, Kevin Van Cott

Chemical and Biomolecular Engineering, Biological Sciences

Title: Engineered Clostridium Botulinum Toxin Adapted to Deliver

Molecules into Selected Cells

Date: 4/28/2020 Number: 10633643 Country: United States

Wei Qiao, Xiang Gong

Electrical and Computer Engineering

Title: Detecting Faults in Turbine Generators

Date: 7/23/2019 Number: 10359473 Country: United States

Date: 3/17/2020 **Number:** 10591519 **Country:** United States

Wei Qiao, Yue Zhao, Long Wu,

Electrical and Computer Engineering

Title: Drive Systems Including Sliding Mode Observers and Methods

of Controlling the Same **Date:** 7/24/2019 Number: GB2512001

Country: United Kingdom

Date: 7/30/2019 Number: GB2512002 Country: United Kingdom

Wei Oiao. Livan Ou. Fa Chen

Electrical and Computer Engineering

Title: Scalable Universal Space Vector Pulse Width Modulation

Scheme for Multilevel Inverters

Date: 2/25/2020 Number: 10574154 **Country:** United States

Mark Rentschler, Shane M. Farritor

Mechanical & Materials Engineering

Title: Medical Inflation, Attachment and Delivery Devices and Related

Methods Date: 7/2/2019 Number: 10335024 **Country:** United States

Patricia Jane Sollars, Ekaterina Heldwein, Gregory Allan Smith, Gary Edward Pickard Veterinary Medicine and Biomedical Sciences

Title: Non-Neuroinvasive Viruses and Uses Thereof

Date: 5/12/2020 Number: 10647964 **Country:** United States

Chao Tai. Deenak Keshwani

Biological Systems Engineering

Title: System for Optimizing Fed-Batch Hydrolysis of Biomass

Date: 12/10/2019 Number: 10501766 **Country:** United States

Christopher Y. Tuan, Lim Nguyen

Civil and Environmental Engineering, **Electrical and Computer Engineering**

Title: Systems and Methods for Construction of Electrically Conductive Concrete Slab with Protection from Current Leakage

Date: 8/20/2019 Number: 10385519 **Country:** United States

2019-2020 License Agreements

Recognition for faculty whose technologies formed the basis of licensing agreements with industry partners July 1, 2019–June 30, 2020

David Andrews

Agronomy and Horticulture *Technology:* Food Colorant

Atorod Azizinamini

Civil and Environmental Engineering

Technology: Short Span Bridge Construction

P. Stephen Baenziger, Mitchell Montgomery, Greg Dorn

Agronomy and Horticulture

Technology: Barley

Steven Barlow, Chunxiao Liao

Special Education and Communication Disorders, Computer Science and Engineering

Technology: NICU Software

Robert Bielenberg, Ronald Faller, Scott K. Rosenbaugh, Jennifer D. Rasmussen (Schmidt)

Midwest Roadside Safety Facility *Technology:* Barrier System

Paul Black, James Allen, Timothy Nicodemus

Biochemistry

Technology: Ground Water Remediation

Paul Blum

Biological Sciences

Technology: Cellulosic Biomass Technology

Stephen DiMagno, Haorun Sun, Bao Hu

Chemistry

Technology: Radiopharmaceutical Method and Agents

Concetta DiRusso, Nishikant Wase

Nutrition and Health Sciences, Biochemistry *Technology:* Lipid Synthesis and Storage

Concetta DiRusso, Paul Black, Angel Sandoval-Alvarez

Nutrition and Health Sciences, Biochemistry

Technology: Fatty Acid Uptake

Achim Dobermann, Tri Setiyono, James Specht, Kenneth Cassman, Albert Weiss

Agronomy and Horticulture, College of Agricultural Sciences and

Natural Resources

Technology: SoySim Software

George Graef

Agronomy and Horticulture

Technology: Soybean Varieties

Technology: Soybean Technology: Soybean Technology: Soybean Technology: Soybean

George Graef, Leslie Korte, Orlando Zapata, Rebecca Ott, Shawn Jenkins, Tyler Frederick, Aaron Hoagland

Agronomy and Horticulture Technology: Soybean Technology: Soybean

David Hage

Chemistry

Technology: Covid-19 Antibody Technology

Jinsong Huang

Mechanical & Materials Engineering

Technology: Solar Panel Technology **Technology:** Solar Cell Technology

Robert Hutkins

Food Science and Technology

Technology: Prebiotics

Sibel Irmak

Biological Systems Engineering

Technology: Edible Bale Wrap

Yongfeng Lu, Leimin Deng, Chenfei Zhand, Shiding Sun, Lei Liu

Electrical and Computer Engineering

Technology: Laser Technology

Lim Nguyen

Electrical and Computer Engineering

Technology: Conductive Concrete

Carlos Urrea

Panhandle Research and Extension Center

Technology: Garbanzo Bean

Technology: "Coyne" Great Northern Bean

Hiep Vu

Veterinary Medicine and Biomedical Sciences

Technology: Pig Vaccine

Yiqi Yang, Narenda Reddy

Textiles, Merchandising and Fashion Design

Technology: Fabric Manufacturing Technology: Fabric Manufacturing

Creative Activity

Faculty who created, performed or produced works in the fine and performing arts and architecture, television and film, or digital/software design, nationally or internationally July 1, 2019–June 30, 2020

Submitted by faculty, chairs/heads or deans

Byron J. Anway

Art, Art History and Design

Artist. Painting and drawing exhibition. "Gatherings." Viterbo University Gallery, Lacrosse, Wisconsin.

Diane Barger

Glenn Korff School of Music

Artist. Clarinet, CD recording. "Play Pretty." Amicitia Duo, published by Potenza Music, Anniston, Alabama.

Performer. Clarinet. "Etudes Concertantes by Alexis Ciesla for E-flat and B-flat clarinets." Amicitia Duo featured recital, International Clarinet Association ClarinetFest®, Knoxville, Tennessee.

Paul Barnes

Glenn Korff School of Music

Artist. Piano. "Piano Quintet 'Annunciation' by Philip Glass; 'Pendulum' for Piano and Violin by Philip Glass." World premiere recording with Brooklyn Rider; produced by Orange Mountain Music, Oktaven Audio, Mt. Vernon, New York.

Christopher Bilder

Statistics

App developer, with McMahan, C., and Tebbs, J. "A Shiny App for Pooled Testing." (From April 12 to the end of June, this app, which helps laboratories increase their testing capacity for SARS-CoV-2, the virus that leads to COVID-19, had been used in at least 69 countries and 41 states in the U.S.)

App developer, with Hitt, B., Schaarschmidt, F., Biggerstaff, B., McMahan, C., and Tebbs, J. "binGroup2: Identification and estimation for group testing." R package version 1.0.

Dana Fritz

Art, Art History and Design

Artist. Photography exhibition. Work from "Terraria Gigantica." Terraria Gigantica: The World under Glass, Bradley University, Peoria, Ilinois.

Artist. Photography exhibition. "Exterior Maintenance, Eden Project." Over the Structures, CICA Museum, Gyeonggi-do, South Korea.

Marques L.A. Garrett

Glenn Korff School of Music

Conductor. Group choir performance. Montana Men's Vocal Festival, University of Montana, Bozeman, Montana.

Conductor. Group choir performance. Georgia Music Educators Association District IV Honor Chorus, Avondale Estates, Gerogia.

Composer. Choir performance. "Sing Out, My Soul." Eastern Region American Choral Directors Association Junior High Honor Choir, Rochester. New York.

Nathan Koch

Glenn Korff School of Music

Performer. Bassoon solo performance. "The Music of Henri Busser." The University of South Florida, Tampa, Florida.

Katie Krcmarik

Advertising

Artist. Installation. "A Space of Their Own: A Monument to Women in Design." Goodall Gallery, Columbia, South Carolina.

Tom Larson

Glenn Korff School of Music

Composer. Documentary feature film. "The Art of Dissent." Coproduction between Czech TV in Prague and NUtech Ventures at UNL. Debuts at Middlebury New Filmmakers Festival, Middlebury, Vermont, and Newburyport Documentary Film Festival, Newburyport, Massachusetts.

James D. Le Sueur

History

Director. Documentary feature film. "The Art of Dissent." Coproduction between Czech TV in Prague and NUtech Ventures at UNL. Debuts at Middlebury New Filmmakers Festival, Middlebury, Vermont, and Newburyport Documentary Film Festival, Newburyport, Massachusetts.

Christopher Marks

Glenn Korff School of Music

Performer. Organ, CD recording. "Two American Organ Symphonies, One American Classic Organ." Produced by the Roy Perry American Classic Organ Foundation in conjunction with the Leo Sowerby Foundation. Recorded at St. Mark's Cathedral, Shreveport, Louisiana.

Bernard R. McCov

Broadcast Journalism

Director. Television broadcast. "Nebraska Stories: D-Day And The Oldfield Effect." Nebraska Educational Telecommunications, Lincoln, Nebraska.

Francisco Souto

Art, Art History and Design

Artist. Drawing exhibition. "Diaspora." Kiechel Fine Arts, Lincoln. Nebraska.

Artist. Drawing exhibition. "State of the Art 2020: Discovering American Art Now." Crystal Bridges Museum of American Art, Lincoln, Nebraska.

Hendrik Viljoen Chemical Engineering

Designer. Philisa thermal cycler. In partnership with Streck, Omaha, Nebraska.

Yujia Wang Landscape Architecture

Designer. "Portal: An Exploration of Mind-Reality-Space." 2019 Bi-City Biennale of Urbanism/Architecture, Shenzhen Museum of Contemporary Arts, Shenzhen, China.

Tyler G. White Glenn Korff School of Music

Composer. "The Gambler's Son: An Opera." World premiere, Kimball Recital Hall, Lincoln, Nebraska; Cozad High School, Cozad, Nebraska.

Sandra Williams Art, Art History and Design

Artist. Cut paper exhibition. International artist residency, the Studios of Key West, Key West, Florida.

Artist. Cut paper exhibition. Artist residency, Arquetopia, Puebla, Mexico.

Artist. Cut paper exhibition. Anthropocene Blues, the Museum of Nebraska Art, Kearney, Nebraska.

Published Books

Faculty who wrote or edited books published July 1, 2019–June 30, 2020 UNL co-authors/editors (identified by those who submitted items for inclusion) designated in red Submitted by faculty, chairs/heads or deans

John R. Bender Journalism/Broadcasting

Author, with Lucinda Davenport and Michael Drager. Writing & Reporting for the Media. New York, NY: Oxford University Press.

Author. Law for Media Professionals. Dubuque, IA: Great River Learning.

Christopher A. Bohn Computer Science and Engineering

Author. *Programming at the Hardware/Software Interface*. Dubuque, IA: Great River Learning.

Tim Borstelmann History

Author. Just Like Us: The American Struggle to Understand Foreigners. New York, NY: Columbia University Press.

Sruti Das Choudhury

Natural Resources/ Computer Science and Engineering

Editor, with Ashok Samal. Intelligent Image Analysis for Plant Phenotyping. Boca Raton, FL: CRC Press, Taylor and Francis Group.

Matt Cohen English

Editor. *The New Walt Whitman Studies*. New York, NY: Cambridge University Press.

Rochelle L. Dalla Child, Youth and Family Studies

Editor, with Donna Sabella. *Routledge International Handbook of Human Trafficking: A Muliti-Disciplinary and Applied Approach*. New York, NY: Routledge/Taylor & Francis.

Judy Diamond

University Libraries/ University of Nebraska State Museum

Author, with Alan B. Bond. Thinking Like a Parrot: Perspectives from the Wild. Chicago, IL: University of Chicago Press.

Editor, with Hooley McLaughlin. *Science Museums in Transition: Unheard Voices*. Oxford, UK: Routledge.

William Grange Johnny Carson School of Theatre and Film

Author. The Business of American Theatre. Oxford, UK: Routledge.

Chris Harding Thornton

English

Author. *Pickard County Atlas*. New York, NY: MCD/Farrar, Straus & Giroux.

Wendy J. Katz

Art, Art History and Design

Author. Humbug: The Politics of Art Criticism in New York's Penny Press. New York, NY: Fordham University Press.

Kenneth A. Kiewra

Educational Psychology

Author. SOAR to College Success and Beyond. San Diego, CA: Cognella.

Suping Lu

University Libraries

Editor. A Dark Page in History: The Nanjing Massacre and Post-Massacre Social Conditions Recorded in British Diplomatic Dispatches, Admiralty Documents, and U.S. Naval Intelligence Reports (updated edition). Lanham, MD: Hamilton Books.

Kate Lvons

Biological Sciences

Editor, with Anna K. Behrensmeyer and Peter J. Wagner. Foundations of Paleoecology. Chicago, IL: University of Chicago Press.

Maria R. Marron

Inurnalism

Editor. *Misogyny and Media in the Age of Trump*. Lanham, MD: Lexington Books.

David L. Olson Supply Chain Management and Analytics

Author, with Desheng Wu. Enterprise Risk Management Models, 3rd edition. Berlin, Germany: Springer.

Author, with Desheng Wu. *Predictive Data Mining Models, 2nd edition*. Berlin, Germany: Springer.

Author. Core Concepts in Project Management. New York, NY: Business Expert Press.

Author. *Quantitative Tools of Project Management*. New York, NY: Business Expert Press.

Kristen Olson

Sociology

Editor, with Jolene D. Smyth, Jennifer Dykema, Allyson L. Holbrook, Frauke Kreuter and Brady T. West. *Interviewer Effects from a Total Survey Error Perspective*. Boca Raton, FL: Chapman and Hall/CRC Press.

Larkin A. Powell Natural Resources

Author. Great Plains Birds. Lincoln, NE: University of Nebraska Press.

Author. Principles for Management of Fisheries and Wildlife: The Manager as Decision-maker. San Diego, CA: Cognella.

Guy Reynolds English/Cather Project

General Editor. Cather Studies, Volume 12: Willa Cather and the Arts. Lincoln, NE: University of Nebraska Press.

Luis Othoniel Rosa

Modern Languages and Literatures/ Center for Ethnic Studies

Author. Comienzos Para Una Estética Anarquista: Borges con Macedonio, 2nd edition. Buenos Aires, Argentina: Editorial Corregidor.

Author. Down with Gargamel! Translated by Noel Black. USA: Argos Books.

Rachael Shah English

Author. Rewriting Partnerships: Community Perspectives on Community-Based Learning. Louisville, CO: University Press of Colorado.

Susan M. Sheridan

Nebraska Center for Research on Children, Youth, Families and Schools/ Educational Psychology

Editor, with McWayne, C.M., and Doucet, F. *Understanding Ethnocultural Diversity and the Home-To-School Link (Vol. 4)*. New York, NY: Springer.

Daniel D. Snow Nebraska Water Center/Natural Resources

Editor, with Ryo Honda and Manish Kumar. *Emerging Issues in the Water Environment During Anthropocene: A South East Asian Perspective.* Singapore: Springer.

Editor, with Manish Kumar, Ryo Honda and Santanu Mukherjee. *Contaminants in Drinking and Wastewater Sources*. Singapore: Springer.

Jordan Soliz Communication Studies

Editor, with Colleen Warner Colaner. *Navigating Relationships in the Modern Family: Communication, Identity, and Difference.* New York, NY: Peter Lang.

Shari J. Stenberg English/Women's and Gender Studies

Editor, with Charlotte Hogg. *Persuasive Acts: Women's Rhetorics in the Twenty-first Century.* Pittsburgh, PA: University of Pittsburgh Press.

Roland Végső English

Author. Worldlessness After Heidegger: Phenomenology, Psychoanalysis, Deconstruction. Edinburgh, Scotland: Edinburgh University Press.

Editor, with Zoltán Kulcsár-Szabó, Tamás Lénárt and Attila Simon. *Life After Literature: Perspectives on Biopoetics in Literature and Theory.* Cham, Switzerland: Springer.

Robert H. Woody

Glenn Korff School of Music

Author. Becoming a Real Musician: Inspiration and Guidance for Teachers and Parents of Musical Kids. Lanham, MD: Rowman & Littlefield

Recognitions and Honors

Faculty who have been elected to honor academies or who have received national or international honors or awards July 1, 2019-June 30, 2020

Submitted by faculty, chairs/heads or deans

Donald Cox

Electrical and Computer Engineering

National Academy of Sciences

Raymond Hames

Anthropology

National Academy of Sciences

James Van Etten

Plant Pathology

National Academy of Sciences

Katherine Ankerson

Architecture

Educator of the Year, International Interior Design Association

Fellow, International Interior Design Association

Christos Argyropolous

Electrical and Computer Engineering

HOT Article Collection, Nanoscale

Article featured in Spotlight on Optics, Optical Society of America

Wavne Babchuk

Educational Psychology

2020 McGraw Hill Distinguished Scholar Award, Ethnographic and Oualitative Research Conference

Andrew Benson

Food Science and Technology

Fellow, American Academy of Microbiology

Robert W. Bielenberg

Midwest Roadside Safety Facility

Best Paper Award, Transportation Research Board AFB20 Committee

Christopher Bilder

Statistics

Statistical Significance Poster Award, Scientific and Public Affairs Advisory Committee for the American Statistical Association Paul Black Biochemistry

Award for Exemplary Contributions to Education, American Society for Biochemistry and Molecular Biology

Erin Blankenship

Statistics

Best Contributed Presentation Award, American Statistical Association Section on Teaching Statistics in the Health Sciences

Jocelyn Bosley

Materials Research Science and Engineering Center

IF/THEN Ambassador, American Association for the Advancement of Science

Dawn O. Braithwaite

Communication Studies

B. Aubrey Fisher Article of the Year Award, Western Journal of Communication (with Bergquist, G., Soliz, J., Everhart, K., and Kreimer, L.), Western States Communication Association

Inaugural Award for Communication Administrator Excellence, Association for Communication Administration

Eve Brank

Center on Children, Families and the Law/ Psychology

Fellow, American Psychological Association

Amy Nelson Burnett

History

John Simon Guggenheim Fellowship, John Simon Guggenheim Memorial Foundation

Solmsen Fellowship, Institute for Research in the Humanities, University of Wisconsin-Madison

Edgar Cahoon

Biochemistry

Fellow, American Association for the Advancement of Science

Chris Calkins

Animal Science

Meat Industry Hall of Fame - 2019 Class, Meat Industry Hall of Fame Board of Trustees

Jennine Capó Crucet

English/Ethnic Studies

Longlisted for the PEN/Open Book Award for $\it My\ Time\ Among\ the\ Whites$

Bertrand Clarke

Statistics

Top Ten Most Downloaded Papers (with Amiri, S. and Clarke, J.) Since 1992, Journal of Computational and Graphical Statistics

Thomas Clemente

Agronomy and Horticulture

Fellow, American Association for the Advancement of Science

Brian Couch

Biological Sciences

Four-Year College and University Research in Biology Education Award, National Association of Biology Teachers

Cody Creech Panhandle Research and Extension Center

Early Career Award, Crop Science Society of America

Maria de Guzman Child, Youth and Family Studies

Ursula Gielen Global Psychology Award, American Psychological Association

Dipti A. Dev

Child, Youth and Family Studies

Early Childhood Child Care Training Award, National Extension Association for Family and Consumer Sciences

Judy Diamond

University Libraries/ University of Nebraska State Museum

Outstanding Administrative Support Award, National Science Education Leadership Association

Kate Engel

Nebraska Innovation Campus

Rising Star Award, Association of University Research Parks

Ronald K. Faller

Civil and Environmental Engineering/ Midwest Roadside Safety Facility

Best Paper Award, Transportation Research Board AFB20 Committee

Kenneth A. Stonex Roadside Safety Award, Transportation Research Board

Christopher R. Fielding

Earth and Atmospheric Sciences

International Distinguished Lecturer, International Association of Sedimentologists

Jean Ann Fischer

Nutrition and Health Sciences

Excellence in Expanded Food and Nutrition Education Program, National Institutes of Food and Agriculture

Lisa Franzen-Castle

Nutrition and Health Sciences

Early Professional Achievement Award, Society for Nutrition Education and Behavior

Sherilyn Fritz

Earth and Atmospheric Sciences/ Biological Sciences

Fellow, Geological Society of America

Marc Garcia

Sociology/Institute for Ethnic Studies

Emerging Scholar in Interdisciplinary Aging Research to Address Health Disparities in Alzheimer's Disease and Related Dementias, National Institute on Aging

Butler-Williams Scholars Program, National Institute on Aging

Program Scholar, New Connections: Increasing Diversity, Robert Wood, Johnson Foundation

Keith Glewen Eastern Nebraska Research and Extension Center

Digital Communications Award (with Steve Melvin, Nathan Mueller, Tyler Williams, Ashley Mueller and Ron Seymour), American Society of Agronomy Education Community

Patricio Grassini

Agronomy and Horticulture

Highly Cited Researcher of 2019, Web of Science Group

Mark Grien

Chemistry

Champion of History Award, History Nebraska

Jason Griffiths

Architecture

Design-Build Award, Association of Collegiate Schools of Architecture

Edmund 'Ted' Hamann Teaching, Learning and Teacher Education

Fellow, American Educational Research Association

Fulbright Garcia-Robles U.S. Scholar Award, Fulbright Program

David G. Imig Distinguished Service Award, Carnegie Project on the Education Doctorate

Roh Harveson

Panhandle Research and Extension Center

Distinguished Service Award, American Phytopathological Society, North Central Division

Cody Hollist

Child, Youth and Family Studies

Fulbright Scholar Award, Brazil, Council for International Exchange of Scholars

Soo-Young Hong

Child. Youth and Family Studies

2020 Faculty Excellence Award, Great Plains Interactive Distance Education Alliance

Terry J. Housh Nutrition and Health Sciences

Lifetime Achievement Award, National Strength and Conditioning

Nicholas Husbye Teaching, Learning, and Teacher Education

Elizabeth G. Sturtevant Exemplary Article Award, Association of Literacy Educators and Researchers

Suat Irmak Biological Systems Engineering

Standard Development Award, American Society of Agricultural and Biological Engineers

Award of Excellence for Extension Education Materials In Extension Education Community, American Society of Agronomy

Education and Public Service Award, Universities Council on Water Resources

Amit Jhala Agronomy and Horticulture/Extension

Early Career Outstanding Extension Leadership Award, Nebraska's Alpha Upsilon Chapter of Epsilon Sigma Phi

Sherri Jones Education and Human Sciences

Honors of the Association, American Speech-Language-Hearing Association

Jennifer Johnson Jorgensen Textiles, Merchandising

and Fashion Design
Influential article of 2019, American Academy of Advertising Journals

Casey Kelly Communication Studies

Outstanding Article of the Year Award, National Communication Association Visual Communication Division

Deepak Keshwani Biological Systems Engineering

A.W. Farrell Young Educator Award, American Society of Agricultural and Biological Engineers

Kenneth Kiewra Educational Psychology

Chess Educator of the Year, University of Texas at Dallas Chess Program

Lydiah Kiramba Teaching, Learning and Teacher Education

Carlos J. Vallejo Memorial Award for Emerging Scholarship, American Educational Research Association

Paul Kononoff Animal Science

Applied Dairy Nutrition Award, American Dairy Science Association

Mariorie Kostelnik

Child, Youth and Family Studies

Distinguished Achievement in Agriculture, Gamma Sigma Delta

Natalie A. Koziol

Nebraska Center for Research on Children, Youth, Families and Schools

Gayle G. Arnold Award for the Best Scientific Paper (with Regina Harbourne, James A. Bovaird, Susan Sheridan et al.), American Academy for Cerebral Palsy and Developmental Medicine

Alok Kumar Marketing

Top 50 Most Productive Authors (2014-2019), American Marketing Association

Brian Larkins

Emeritus Associate Vice Chancellor for Life Sciences/ Agronomy and Horticulture

Charles Reid Barnes Life Membership Award, American Society of Plant Biologists

Richard Leiter Schmid Law Library

Frederick Charles Hicks Award for Outstanding Contributions to Academic Law Librarianship, American Association of Law Libraries Special Interest Section

Joe Louis Entomology

Early Career Innovation Award, Entomological Society of America Scientist to Watch, *The Scientist* magazine

John Dustin Loy Veterinary Medicine and Biomedical Sciences

Award for Excellence in Diagnostic Microbiology, American Association of Veterinary Laboratory Diagnosticians

Joe D. Luck Biological Systems Engineering

Superior Paper Award, American Society of Agricultural and Biological Engineers

Kurt Mantonya Eastern Nebraska Research and Extension Center

Innovative Program Award (with Jenny Nixon), Community Development Society

Greg McKee Agricultural Economics

Distinguished Extension/Outreach Program Award, Agricultural and Applied Economics Association

Justin McMechan Entomology

Abbey-Young Alumni Award, University of Minnesota-Crookston

New Investigator Award, FMC Corporation

Amanda Morales Teaching, Learning and Teacher Education

Early Career Scholar Award, American Educational Research Association's Latina/o/x Research Issues Special Interest Group

Rodney Moxley Veterinary Medicine and Biomedical Sciences

Award for Best JVDI Manuscript (with David Steffen), American Association of Veterinary Laboratory Diagnosticians

Elizabeth Niehaus Educational Administration

Fellowship, University of California National Center for Free Speech and Civic Engagement

Kristen Olson Sociology

 ${\it Editor-in-Chief (survey methodology side)}, \textit{Journal of Survey Statistics and Methodology}$

Kendra L. Ordia Interior Design

Ones to Watch Award Scholar, American Society of Interior Designers

Morgan E. Palmer Classics and Religious Studies/ Women's and and Gender Studies

Residency for the Study of Classical Antiquity, Vandœuvres, Switzerland, The Hardt Foundation for the Study of Classical Antiquity

Lance C. Pérez Electrical and Computer Engineering

Distinguished Member Award, Education Society of the Institute of Electrical and Electronics Engineers

Kevin Pope Natural Resources

Award of Excellence, Fisheries Management Section, American Fisheries Society

Larkin A. Powell Natural Resources

Excellence in Wildlife Education Award, The Wildlife Society

Shelia Purdum Animal Science

American Egg Board Research Award, Poultry Science Association

Award for Excellence in Multistate Research, Northeastern Regional Association of State Agricultural Experiment Station Directors

Wei Qiao Electrical and Computer Engineering

Fellow, Institute of Electrical and Electronics Engineers

Jennifer D. Rasmussen Civil and Environmental Engineering/ Midwest Roadside Safety Facility

Best Paper Award, Transportation Research Board AFB20 Committee

Brett Ratcliffe University of Nebraska State Museum

J.O. Westwood Medal for Excellence in Insect Taxonomy, Royal Entomological Society of the United Kingdom

Laurence R. Rilett Civil and Environmental Engineering/ Nebraska Transportation Center

Arthur M. Wellington Prize for Best Transportation Paper in an ASCE Journal, American Society of Civil Engineering

Best Paper Award (with Ernest Tufuor), Transportation Research Board Committee on Highway Capacity and Quality of Service

Workforce Development and Technology Transfer Leadership Award (accepted by Dr. Rilett on behalf of all the MATC staff, faculty and students from UNL and consortium partners), Council of University Transportation Centers

Scott K. Rosenbaugh Midwest Roadside Safety Facility

Best Paper Award, Transportation Research Board AFB20 Committee

James C. Schnable Agronomy and Horticulture/ Center for Plant Science Innovation

Outstanding Scientific Article (Asia), International Crops Research Institute for the Semi-Arid Tropics

Early Career Award, American Society of Plant Biologists

Early Career Award, North American Plant Phenotyping Network

Michael Sealy Mechanical & Materials Engineering

2020 Outstanding Young Manufacturing Engineer Award, Society of Manufacturing Engineers

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Charles Shapiro Agronomy and Horticulture (emeritus)

Fellow, Soil Science Society of America

Susan M. Sheridan

Nebraska Center for Research on Children, Youth, Families and Schools/ Educational Psychology

Gayle G. Arnold Award for the Best Scientific Paper (with Regina Harbourne, James A. Bovaird and Natalie A. Koziol et al.), American Academy for Cerebral Palsy and Developmental Medicine

Jolene D. Smyth Sociology

John M. Kennedy Achievement Award, Association of Academic Survey Research Organizations

Francisco Souto Art, Art History and Design

Lorenzo il Magnifico Award for Works on Paper, Florence Biennale International Contemporary Art Exhibition

Joshua S. Steelman

Civil and Environmental Engineering/ Midwest Roadside Safety Facility

Best Paper Award, Transportation Research Board AFB20 Committee

David Steffen Veterinary Medicine and Biomedical Sciences

E. P. Pope Award, American Association of Veterinary Laboratory Diagnosticians

Richard K. Sutton Agronomy and Horticulture (emeritus)

Career Research Award in Green Roof Research, Green Roofs for Healthy Cities Research Committee

Zhenghong Tang Community and Regional Planning Program/ Natural Resources

Chester Rapkin Award, Association of Collegiate Schools of Planning

Laura Thompson Eastern Nebraska Research and Extension Center

Excellent Audiovisual for Digital Ag Online Course: "Yield Data Post Processing," Agronomy Society of America Extension Education Community

Excellent Digital Communication for Nebraska On-Farm Research Website, Agronomy Society of America Extension Education Community

Isabel Velázquez

Modern Languages and Literatures

Fulbright Scholar Award, Brazil, Council for International Exchange of Scholars

Kara Viesca Teaching

Teaching, Learning and Teacher Education

Outstanding Leadership Certificate, American Educational Research Association's Bilingual Education Research Special Interest Group

Hope Wabuke

English

National Library of Scotland Scholar Award, Fulbright

Residency, SPACE at Ryder Farm

Fellow, Poetry Foundation's Poetry Incubator for Community Engaged Poets

Mark Walker

Mathematics

Fellow, American Mathematical Society

Tyler G. White

Jack Whittier

Glenn Korff School of Music

Panhandle Research and Extension Center

First Place, Orchestral Composition, The American Prize

Fellow, American Society of Animal Science

Cynthia Willis-Esqueda Psychology/Institute for Ethnic Studies

Certificate of Appreciation, United States Air Force

Fellow, Society of Personality and Social Psychology, Division 8, American Psychological Association

Robert Wright

Entomology

C.V. Riley Award, North Central Branch of the Entomological Society of America

Judy Wu-Smart

Entomology

Patriot Award, Nebraska National Guard

Yan Xia

Child. Youth and Family Studies

2018-2019 Fulbright Distinguished Chair in Social Sciences, China, Bureau of Educational and Cultural Affairs, U.S. State Department and Fulbright Scholarship Board

David P. Yuill

Durham School of Architectural Engineering & Construction

Science and Technology for the Built Environment Best Paper Award, American Society of Heating, Refrigerating and Air-Conditioning Engineers

Janos Zempleni

Nutrition and Health Sciences

Osborne and Mendel Award, American Society for Nutrition

Xiao Cheng Zeng

Chemistry

Highly Cited Researcher of 2019, Web of Science Group

Ruizhi Zhang

Statistics

Pritsker Doctoral Dissertation Award, Institute of Industrial and Systems Engineers

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Publications in Scholarly Journals

Faculty who have published in peer-reviewed scholarly journals July 1, 2019–June 30, 2020

UNL co-authors (identified by those who submitted articles for inclusion) designated in red Submitted by faculty, chairs/heads or deans

Mirzokhidjon Abdurakhmonov

Management

With J. Ridge, A. Ingram and D. Hasija. Market reactions to non-market strategy: Congressional testimony as an indicator of firm political influence. *Strategic Management Journal*.

Herita Akamah Accountancy

Severance and bad news disclosures. *Journal of Accounting, Auditing and Finance*.

Arthur C. Allen Accountancy

With Brian McAllister. How financial information is used by private foundations to make capital campaign grants. *Journal of Governmental and Nonprofit Accounting*.

Sam A. Allgood Economics

Age discimination and academic labor markets. *Journal of Economic Behavior and Organization*.

With Georg Schaur. 50 years of research in the Journal of Economic Ed. *The Journal of Economic Education*.

With KimMarie McGoldrick. Setting an agenda for the future. *The Journal of Economic Education*.

Katie Anania

Art, Art History and Design

Walk with me: William Anastasi's stenography of the street.

Panorama: Journal of the Association of Historians of American Art.

John E. Anderson Economics

Real estate ownership and life satisfaction in transition countries. Journal of European Real Estate Research.

With Wenjing Li and James R. Schmidt. The effect of deed taxes on real estate prices in China. *Asia-Pacific Journal of Regional Science*.

With Junpyo Park and Eric C. Thompson. Land use, crop choice, and proximity to ethanol plants. *Land*.

Trey Andrews

Psychology/Institute for Ethnic Studies

With Acosta, L.M., Acosta Canchila, M.N., Estrada, S.E., and Ramos, A. Testing machismo and the gender role strain theory with Latino migrant farmworkers. *Hispanic Journal of Behavioral Sciences*.

With Haws, J.K., Acosta, L.M., Acosta Canchila, M.N., et al. Combinatorial effects of discrimination, legal status fears, adverse childhood experiences, and harsh working conditions among Latino migrant farmworkers: Testing learned helplessness hypotheses. *Journal of Latinx Psychology*.

With Vásquez, D., Ponte, L., et al. Más allá de las barreras: Competency and practice considerations in language, cultural, and social issues when delivering group CPT to Hispanic immigrants. International Journal of Group Psychotherapy.

With López, C.M., Snyder, A., et al. Polyvictimization, related symptoms, and familial and neighborhood contexts as longitudinal mediators of racial/ethnic disparities in violence exposure across adolescence. *Journal of Immigrant and Minority Health*.

Troy D. Anderson Entomology

With J.R. Williams and D.R. Swale. Comparative effects of technical and formulated chlorantraniliprole to survivorship and locomotor activity of the honey bee (*Apis mellifera* L.). *Pest Management Science*.

Özgür Araz Supply Chain Management and Analytics

Community supported agriculture: Systems thinking in action. American Journal of Public Health.

With N.A. Ramirez and J.W. Fowler. Decision assessment algorithms for location and capacity optimization under resource shortages. *Decision Sciences*.

With Tsan-Ming Choi, David Olson and Sibel Salman. Role of analytics for operational risk management in the era of big data. *Decision Sciences*.

With Tsan-Ming Choi, David Olson and Sibel Salman. Data analytics for operational risk management. *Decision Sciences*.

With Adrian Ramirez-Nafaratte, Megan Jehn and Fernando Wilson. The importance of widespread testing for COVID-19 pandemic: Systems thinking for drive-through testing sites. *Health Systems*.

With M. Yardim, H. Ozcebe and S. Uner. Alarming prevalence of childhood obesity and related parental factors across three socioeconomic strata in Ankara, Turkey. *Eastern Mediterranean Health Journal*.

With L. Frerichs, L. Calancie and T.T.K. Huang. Dynamic empirically-based model for understanding future trends in U.S. obesity prevalence in the context of social influences. *Obesity*.

With S. Haley, S. Li, M. Yardim and S. Uner. Perceptions of obesity prevention policies: Socioeconomic assessment in the Turkish capital. *Journal of Pediatric Nursina*.

With D. Olson and N.A Ramirez. Predictive analytics for hospital admissions from the emergency department using triage information. *International Journal of Production Economics*.

With L. Baccaglini, M. Beachy and M. Ash. Predictive factors associated with in-hospital mortality for patients across the sepsis spectrum. *Infectious Diseases in Clinical Practice*.

Christos Argyropoulos Electrical and Computer Engineering

With B. Jin. Self-Induced passive nonreciprocal transmission by nonlinear bifacial dielectric metasurfaces. *Physical Review Applied*.

With D.S. Khatri, Y. Li et al. Plasmonic random laser on an optical fiber tip. *Optics Express*.

With B. Jin. Nonreciprocal transmission in nonlinear PT-symmetric metamaterials using Epsilon-near-zero media doped with defects. *Advanced Optical Materials*.

With T. Guo. Tunable and broadband coherent perfect absorption by ultrathin black phosophorus metasurfaces. *Journal of the Optical Society of America*.

With Y. Li and A. Nemilentsau. Resonance energy transfer and quantum entanglement mediated by Epsilon-near-zero and other plasmonic waveguide systems. *Nanoscale*.

With N. Charchi, Y. Li et al. Small mode volume plasmoci film-coupled nanostar resonators. *Nanoscale Advances*.

Jena Asgarpoor Master of Engineering Management Program

An integrated platform of active learning techniques in a supply chain management program. *Proceedings of the American Society for Engineering Education*.

Asynchronous course design 101. Proceedings of the American Society for Engineering Management International Annual Conference.

With Majid Nabavi, Julia Cronin-Gilmore and Diana Maguire. Building a woman's brand through serving on nonprofit boards. Journal of Brand Strategy. With Yuting Chen, Shannon Bartelt-Hunt et al. Managing dual academic careers. *Proceedings of the American Society for Engineering Education*.

Steven M. Barlow Special Education and Communication Disorders/ Biological Systems Engineering/ Center for Brain, Biology and Behavior

With Shinying Chu, Jaehoon Lee and Jingyan Wang. Effects of utterance rate and length on the spatiotemporal index in Parkinson's disease. *International Journal of Speech-Language Pathology*.

With Rebecca Custead, Jaehoon Lee et al. Wireless sensing of lower lip and thumb-index finger 'ramp-and-hold' isometric force dynamics in a small cohort of unilateral MCA stroke. Sensors.

Matthew A. Barlow Management

With J. Cameron Verhaal and Ryan W. Angus. Optimal distinctiveness, strategic categorization, and product market entry on the Google Play app platform. *Strategic Management Journal*.

Demet Batur Supply Chain Management and Analytics

With F. Choobineh. Selecting the best alternative based on its quantile. *INFORMS Journal on Computing*.

With Jennifer Ryan, Z. Zhao and M.C. Vuran. Dynamic pricing for wireless internet based on changing capacity and usage. *Manufacturing and Service Operations Management*.

Stephen Behrendt English

This is not an improvisation: Letitia Landon and the slipperiness of taxonomy. *The European Legacy: Toward New Paradigms*.

Andreia Bianchini Food Science and Technology

With K.C. Massarolo, C.F.J. Ferreira et al. Resistant starch and hydrothermal treatment of cornmeal: Factors in aflatoxins and fumonisin B1 reduction and bioaccessibility. *Food Control*.

With E. Valverde-Bogantes, J. Herr et al. Recent population changes of *fusarium* head blight pathogens: Drivers and implications. *Canadian Journal of Plant Pathology*.

Nathan Bicak Interior Design

Affordable access: The economic impacts of makerspaces. *Magazine* on *Urbanism #32: Affordable Urbanism (MONU)*.

Christopher Bilder Statistics

With B. Abdalhamid, E. McCutchen et al. Assessment of specimen pooling to conserve SARS CoV-2 testing resources. *American Journal of Clinical Pathology*.

With P. Iwen, B. Abdalhamid et al. Tests in short supply? Try group testing. Significance.

With B. Hitt, J. Tebbs and C. McMahan. The objective function controversy for group testing: Much ado about nothing? *Statistics in Medicine*.

With P. Hou, J. Tebbs et al. Array testing with multiplex assays. *Biostatistics*.

Dirk Black Accountancy

With T.E. Christensen and J.T. Ciesielski. Non-GAAP earnings: A consistency and comparability crisis? *Contemporary Accounting Research*.

CEO risk-taking incentives and relative performance evaluation. *Accounting & Finance*.

Jeff Bradshaw Entomology

With G.W. Hergert, R. Wilson, R. Harveson, R. Nielsen et al. Agronomic utilization of precipitated calcium carbonate — effect of PCC on sugar beet root aphid control and herbicide dose response of kochia grown on PCC piles. *Agronomy*.

Dawn O. Braithwaite Communication Studies

With Bergquist, G., Soliz, J., Everhart, K,L., and Kreimer, L. Investigating layers of identity and identity gaps in refugee resettlement experiences in the Midwestern United States. *Western Journal of Communication*.

Anita Breckbill University Libraries

With Hannah Jo Smith. Follow the baton: The story of the Wagner Siegfried Idyll baton. Fontes Artis Musicae.

Gary J. Brewer Entomology

With Florez-Cuadros, M., Berkebile, D., and Taylor, D. Effects of diet quality and temperature on stable fly (Diptera: Muscidae) development. *Insects*.

Tami M. Brown-Brandl Biological Systems Engineering

Development and application of an image acquisition system for characterizing sow behaviors in farrowing stalls. *Computers and Electronics in Agriculture*.

With Leonard, S.M., H. Xin H., and B.C. Ramirez. Development and application of an image acquisition system for characterizing sow behaviors in farrowing stalls. *Computers and Electronics in Agriculture*.

With Leonard, S.M., Xin, H., et al. Effects of farrowing stall layout and number of heat lamps on sow and piglet production performance. *Animals*.

With Morris, D., Hales, K., et al. The effects of isoenergetic highstarch or high-fat diets on energy and nitrogen partitioning and utilization in lactating Jersey cows. *Journal of Dairy Science*.

With Condotta, I.C.F.S., Pilta, S.K., et al. Evaluation of low-cost depth cameras for agricultural applications. *Computers and Electronics in Agriculture*.

With Cross, A.J., Keel, B.N., et al. Feeding behavior of grow-finish swine and the impacts of heat stress. *Translational Animal Science*.

With Baber, J.R., Wickersham, T.A., et al. Effects of diet type on nutrient utilization and energy balance in drylot heifers. *Journal of Animal Science*.

With Adrion, F., Maselyne, J., et al. A review of passive radio frequency identification systems for animal monitoring in livestock facilities. *Applied Engineering in Agriculture*.

Kelsy Burke Sociology

With Amy McDowell. White women who lead: God, girlfriends, and diversity projects in a national evangelical ministry. *Sociology of Race and Ethnicity*.

With Trenton Haltom. Created by God and wired to porn: Redemptive masculinity and gender beliefs in narratives of religious men's pornography addiction recovery. *Gender & Society*.

With Alice MillerMacPhee. Constructing pornography addiction's harms in science, news media, and politics. *Social Forces*.

Anthony J. Bushard Glenn Korff School of Music

(Backstage) Preservation (At Kimball) Hall. Material Reflections at Documenting Jazz: A Collection of Short Reflections on Jazz as Material Culture.

"What to do over the week-end": Towards an understanding of distraction, advertising and newspaper coverage of the Kansas City jazz scene in the 1930s. *Jazz Research Journal*.

Robert J. Campbell Management

Born to take risk? The effect of CEO birth order on strategic risk taking. *Academy of Management Journal*.

Janet F. Carlson Buros Center for Testing/Educational Psychology

Context and regulation of homeschooling: Issues, evidence, and assessment practices. *School Psychology*.

Les Carlson Marketing

With J. Zeiss and D. Walker. Reassessing the influence of parents and advertising on children's BMI. *Journal of Current Issues & Research in Advertising*.

With J. Skiba and R. Petty. Beyond deception: Potential unfair consumer injury from various types of covert marketing. *Journal of Consumer Affairs*.

Theresa Catalano Teaching, Learning, and Teacher Education

The visual representation of dual language education. *Visual Communication*.

With L.K. Kiramba and K. Viesca. Transformative interviewing and the experiences of multilingual learners not labeled ELL in U.S. schools. *Bilingual Research Journal*.

With Ari Kohen. Googly eyes and yard signs: Deconstructing one professor's successful rebuffing of a right-wing attack on an academic institution. *Discourse & Society.*

With Fucci, T. Missing the (turning) point: The erosion of democracy at an American university. *Journal of Language and Politics*.

With Traore Moundiba, H.C. and Pir, H. "I felt valued": Multilingual microteachings and the development of teacher agency in a teacher education classroom. *Critical Multilingualism Studies*.

With Musolff, A. "Taking the shackles off": Metaphor and metonymy of migrant children and border officials in the U.S. *Metaphorik.de*.

Heng Chen Supply Chain Management and Analytics

With Senay Solak. Lower cost departures for airlines: Optimal policies under departure metering. *Transportation Research Part C: Emerging Technologies*.

Alan C. Christensen Biological Sciences

With Alexander Kozik, Beth A. Rowan et al. The alternative reality of plant mitochondrial DNA: One ring does not rule them all. *PLOS Genetics*.

Bertrand Clarke Statistics

With T. Le. In praise of partially interpretable predictors. *Journal of Statistical Analysis and Data Mining*.

With S. Amiri, J. Clarke and H. Koepke. A stabilized hybrid clustering strategy. *Journal of Computational and Graphical Statistics*.

Jennifer Clarke Statistics

With J. Ortuzar, O. Dogan et al. Quantitative assessment of microbial quality and safety risk: A preliminary case study of strengthening raspberry supply system in Chile. *Food Control*.

With K. Min, A. Galvis et al. Association between baseline abundance of *Peptoniphilus*, a Gram-positive anaerobic coccus, and wound healing outcomes of DFUs. *PLOS ONE*.

With A. Petrosyan, C. Frisbie et al. Post-ER stress biogenesis of Golgi is governed by giantin. *Cells*.

With M. Adamowicz, T. Rambo et al. Validation of MaSTR Software: Extensive study of fully-continuous probabilistic mixture analysis using PowerPlex Fusion 2-5 contributor mixtures. Forensic Science International: Genetics Supplement Series.

With M. Rezapour, M.A. Quintero et al. Reclassifying pseudopolyps in inflammatory bowel disease: Histologic and endoscopic description in the new era of mucosal healing. *Crohn's and Colitis*.

With E. Dutta, K. Shao et al. Dose-response assessment between folate exposure and risk of cognitive impairment: Synthesizing data from documented studies. *Risk Analysis*.

With O. Dogan, F. Mattos and B. Wang. A quantitative microbial risk assessment model of *Campylobacter* in broiler chickens: Evaluating processing interventions. *Food Control*.

With C. Penas, M. Maloof et al. Time series modeling of cell cycle exit identifies Brd4-dependent regulation of cerebellar neurogenesis. *Nature Communications*.

Matt Cohen English

Time and the bibliographer: A meditation on the spirit of book studies. *Textual Cultures*.

Andrea S. Cupp Animal Science

With M.R. Plewes, J.R. Wood et al. Luteinizing hormone regulates the phosphorylation and localization of the mitochondrial effector dynamin-related protein-1 (DRP1) and steroidogenesis in the bovine corpus luteum. Federation of American Societies for Experimental Biology Journal.

With M.A. Abedal-Majed, J.R. Wood et al. Vascular endothelial growth factor A isoforms modulate follicle fate independent of diet through diverse signal transduction pathways. *Biology of Reproduction*.

With M.R. Plewes, J.R. Wood et al. Yes-associated protein (YAP) is required for proliferation and function of bovine granulosa cells. *Biology of Reproduction*.

Rochelle Dalla Child, Youth and Family Studies

With T. Jhaveri Panchal, S. Erwin et al. Structural vulnerabilities, personal agency, and caste: Child sex trafficking in rural India. *Violence and Victims*.

With S. Erwin and L. Kreimer. Children of Mumbai's brothels: Investigating developmental prospects, primary relationships, and service provision. Family Relations: Interdisciplinary Journal of Applied Family Science.

Lory J. Dance Sociology/Institute for Ethnic Studies

With L.A. Johnson. Ideal dialogues with immigrants of color in Sweden and the United States: A participatory-ethnographic approach. *Journal of Ethnographic and Qualitative Research*.

Dipti A. Dev Child, Youth, and Family Studies

With Kailey Snyder, Zainab Rida et al. Exploring rural and urban Go NAP SACC trained child care providers' perceptions and needs regarding the promotion of physical activity and healthy eating. *Cogent Social Sciences*.

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Silvana Trimi **Supply Chain Management and Analytics**

With Sang M. Lee. Convergence innovation in the digital age and in the COVID-19 pandemic crisis. Journal of Business Research.

With Dong W. Kim, Soon G. Hong and Seongbae Lim. Effects of co-creation on organizational performance of small and medium manufacturers. Journal of Business Research.

With F. Palma and S.G. Hong. Motivation triggers for customer participation in value co-creation. Service Business: An International Journal.

Kimberly A. Tyler Sociology

With Rachel M. Schmitz. Childhood disadvantage, social and psychological stress, and substance use among homeless youth: A life stress framework. Youth & Society.

With Colleen M. Ray. Risk and protective factors for substance use among youth experiencing homelessness. Children and Youth Services Review.

With Kristen Olson and Colleen M. Ray. Understanding daily depression, drinking, and marijuana use among homeless youth using short message service surveying. Journal of Child & Adolescent Substance Abuse.

With Kristen Olson, A comparison of frequency of alcohol and marijuana use using short message service surveying and survey questionnaires among homeless youth. American Journal of Drug and Alcohol Abuse

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Emre Unlu Finance/Foonomics

With Xiaoyan Bao, Matthew Billett and David B. Smith. Does other comprehensive income volatility influence credit risk and the cost of debt? Contemporary Accounting Research.

Matthew Van Den Broeke Earth and Atmospheric Sciences

A preliminary polarimetric radar comparison of pretornadic and nontornadic supercell storms. Monthly Weather Review.

With B.R. Elbing and C.E. Petrin. Measurement and characterization of infrasound from a tornado producing storm. The Journal of the Acoustical Society of America.

Susan VanderPlas Statistics

With Dianne Cook and Heike Hofmann. Testing statistical charts: What makes a good graph? Annual Review of Statistics and Its Application.

With Melissa Nally, Tylor Klep et al. Comparison of three similarity scores for bullet LEA matching. Forensic Science International.

Shari R. Veil **Advertising and Public Relations**

With Chelsea L. Woods. Balancing transparency and privacy in a university sexual misconduct case: A legal public relations case study. Journal of International Crisis and Risk Communication

Ana María Vélez Entomology

With Roberts A., Boeckman C.J., et al. Sublethal endpoints in nontarget organism testing for insect active crops. Frontiers in Plant Science.

With Christiaens, O., Whyard, S., et al. Double-stranded RNA technology to control insect pests: Current status and challenges. Frontiers in Plant Science

With Fishilevich, E., Siegfried, B.D., et al. Control of western corn rootworm via RNAi traits in maize: Lethal and sublethal effects of Sec23 dsRNA. Pest Management Science.

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Kara Viesca Teaching, Learning and Teacher Education

With Leech, N., and Haug, C. Motivation to teach: The differences between faculty in schools of education and K-12 teachers. International Journal of Comparative Education and Development.

With Barnatt, J., D'Souza, L., et al. Intercultural competence in pre-service teacher candidates. International Journal of Educational Reform

William B. Walstad Economics

With William Bosshardt. The undergraduate economics coursework of elementary and secondary school teachers. *The Journal of Economic Education*.

Lily M. Wang

Durham School of Architectural Engineering & Construction

With Joonhee Lee. Investigating multidimensional characteristics of noise signals with tones from building mechanical systems and their effects on annoyance. *The Journal of the Acoustical Society of America*.

Liying Wang Finance

With Stanislava Nikolova. Institutional allocations in the primary market for corporate bonds. *Journal of Financial Economics*.

Yingying Wang Special Education and Communication Disorders/ Center for Brain, Biology and Behavior

With A. Mathur and D. Schultz. Neural bases of phonological and semantic processing in early childhood. *Brain Connectivity*.

With J. Zuk, J. Dunstan et al. Multifactorial pathways facilitate resilience among kindergarteners at risk for dyslexia: A longitudinal behavioral and neuroimaging study. *Developmental Science*.

With F. Sibaii, R. Custead, H. Oh and S.M. Barlow. Functional connectivity evoked by orofacial tactile perception of velocity. *Frontiers in Neuroscience*.

Stephen N. Wegulo

Plant Pathology

With Carlos Bolanos-Carriel, P. Stephen Baenziger, Deanna Funnell-Harris, Heather E. Hallen-Adams and Kent M. Eskridge. Effects of fungicide chemical class, fungicide application timing, and environment on Fusarium head blight in winter wheat. *European Journal of Plant Pathology*.

With Esteban Valverde-Bogantes, Carlos Bolanos-Carriel, Heather E. Hallen-Adams et al. Aggressiveness and deoxynivalenol production of Nebraska isolates of *Fusarium boothii* and *F. graminearum. Plant Health Progress*.

Regina E. Werum Sociology

With S. Harcey, A. MillerMacPhee et al. Soldiers to scientists: Gender, military service, and STEM degree earning. *Socius*.

With L. Raenzulli and A. Kronberg. Contested terrain? Homeschooling laws and court cases in the era of school choice, 1972-2009. *Sociological Forum*.

With H.L. Scheuerman, A. Faupel and C. Parris. What do social movements have to do with it? Reporting anti-gay hate crime in the United States. *Law and Policy*.

With C. Steidl. If all you have is a hammer, everything looks like a nail: A cautionary tale about operationalization. *Sociology Compass*.

Lorey A. Wheeler

Nebraska Center for Research on Children, Youth, Families and Schools

With B.A. Gurney, M. German et al. Increasing behavioral health appointment attendance using warm handoffs in an integrated primary care setting. *The Behavior Therapist*.

With A.J. Yeo, M. German et al. Self-harm and self-regulation in urban ethnic minority youth: A pilot application of dialectical behavior therapy for adolescents. *Child and Adolescent Mental Health*.

With P.G. Arora and M.Y. Delgado. The distal role of adolescents' awareness of and perceived discrimination on young adults' socioeconomic attainment among Mexican-origin immigrant families. *Journal of Youth and Adolescence*.

Cynthia Willis-Esqueda Psychology/Institute for Ethnic Studies

With Palmer Bacon, J., and Spaulding, W. Stress, trauma, racial/ ethnic group membership, and HPA function: Utility of hair cortisol. *American Journal of Orthopsychiatry*.

With Shepherd, S.M., Newton, D., et al. The challenge of cultural competence in the workplace: Perspectives of healthcare providers. *BMC Health Services Research*.

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Richard Wilson Plant Pathology

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Charles Wortmann

Agronomy and Horticulture

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With I. Serme, B. Tarfa and K. Ouattara. Maize response to applied nutrients for the Sudan and Guinea savannas of West Africa. *Agronomy Journal*.

With H. Blanco-Canqui, J. Lindquist et al. Identifying the drivers and predicting the outcome of conservation agriculture globally. *Agricultural Systems*.

With F. Liben and A. Tirfessa. Geospatial modeling of conservation tillage and nitrogen timing effects on yield and soil properties. *Agricultural Systems*.

With N.L. Nabahungu, A.R. Cyamweshi et al. Lowland rice yield and economic response to fertilizer application in Rwanda. *Agronomy Journal*.

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Rrenda G. Wristen

Glenn Korff School of Music

Let them eat cake! Teaching piano using stacked engagement layers. *The Piano Magazine*.

Julie Wu Finance

With Ekkehart Boehmer and Kingsley Fong. Algorithmic trading and market quality: International evidence. *Journal of Financial and Quantitative Analysis*.

With Stanislava Nikolova and Liying Wang. Institutional allocations in the primary market for corporate bonds. *Journal of Financial Economics*.

With E. Boehmer, C. Jones and X. Zhang. What do short sellers know? *Review of Finance*.

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Judy Wu-Smart

Entomology

With Olgun, T., Everhart, S., and Anderson, T.D. Comparative analysis of viruses in four bee species collected from agricultural, urban, and natural landscapes. *PLOS ONE*.

With Simone-Finstrom, M., Nino, E.L., et al. Proceedings of the 2019 American Bee Research Conference. *Insects*.

Tadeusz A. Wysocki

Electrical and Computer Engineering

With Denis Shitov, Elena Pirogova and Margaret Lech. Learning acoustic word embeddings with dynamic time warping triplet networks. *IEEE Access*.

With E.J. Clement, T.T. Schulze et al. Stochastic simulation of cellular metabolism. *IEEE Access*.

Cindy Xu

Finance

With David Landriault and B. Li, T. Shi. On the distribution of classic and some exotic ruin times. *Insurance Mathematics and Economics*.

Liang Xu

Supply Chain Management and Analytics

With Hui Zhao and Nicholas C Petruzzi. Inducing compliance with post-market studies for drugs under FDA's accelerated approval pathway. *Manufacturing & Service Operations Management*.

With Hui Zhao and Enno Siemsen. Inventory sharing and demand-side underweighting. *Manufacturing & Service Operations Management*.

Yiqi Yang

Textiles, Merchandising and Fashion Design

With Mi, X., Chang, Y., and Xu, H.L. Valorization of keratin from food wastes via crosslinking using non-toxic oligosaccharide derivatives. *Food Chemistry*.

With Liu, L.Y., Mu, B.N., and Li, W. Cost-effective reactive dyeing using spent cooking oil for minimal discharge of dyes and salts. *Journal of Cleaner Production*.

With Mu, B.N., Li, W., et al. Salt-free and environment-friendly reactive dyeing of cotton in cottonseed oil/water system. *Cellulose*.

With Mu, B.N., and Hassan, F. Controlled assembly of secondary keratin structures for continuous and scalable production of tough fibers from chicken feathers. *Green Chemistry*.

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With Liu, L.Y., Mu, B.N., and Li, W. A semi-stable emulsion system based on spent cooking oil for pilot-scale reactive dyeing with minimal discharges. ACS Sustainable Chemistry & Engineering.

With Zhu, X.Y., Hou, X.L., et al. Chitosan/Gallnut tannins composite fiber with improved tensile, antibacterial and fluorescence properties. *Carbohydrate Polymers*.

With Mi, X., Mu, B.N., et al. From poultry wastes to quality protein products via restoration of secondary structure with extended disulfide linkages. ACS Sustainable Chemistry & Engineering.

With Chang, Y., Chen, Z.Z., and Pan, G.W. Enhancing the recrystallization ability of bio-based polylactide stereocomplex by in situ construction of multi-block branched conformation. *Journal of Materials Science*.

Jiujiu Yu

Nutrition and Health Sciences

With J. Zempleni, S.D. Kachman, S.K. Natarajan et al. Protective role of shiitake mushroom-derived exosome-like nanoparticles in D-galactosamine and lipopolysaccharide-induced acute liver injury in mice. *Nutrients*.

David P. Yuill

Durham School of Architectural Engineering & Construction

With A. Ebrahimifakhar. Inverse estimation of thermophysical properties and initial moisture content of cereal grains during deepbed grain drying. *Biosystems Engineering*.

With Mehdi Mehrabi. A laboratory test method to realistically simulate air side fouling of condensers (RP-1705). Science and Technology for the Built Environment.

With Alireza Behfar and Yuebin Yu. Automated fault detection and diagnosis for supermarkets' method selection, replication, and applicability. *Energy and Buildings*.

With Y. Hu and A. Ebrahimifakhar. The effects of outdoor air-side fouling on frost growth and heat transfer characteristics of a microchannel heat exchanger: An experimental study. *International Journal of Heat and Mass Transfer*.

Janos Zempleni

Nutrition and Health Sciences

With M. Sandri, J. Shu, S. Kachman and J. Cui. Milk exosomes and microRNAs cross the placenta and promote embryo survival in mice. *Reproduction*.

With F. Zhou, H.A. Paz, J. Shu, M. Sadri, J. Cui, S.D. Kachman and S.C. Fernando. Dietary bovine milk exosomes and their RNA cargos elicit changes in bacterial communities in C57BL/6 mice. *American Journal of Gastrointestinal and Liver Physiology*.

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With E. Mutai and A.E. Ramer-Tait. MicroRNAs in bovine milk exosomes are bioavailable in humans but do not elicit a robust pro-inflammatory cytokine response. *BMC ExRNA*.

With S. Sukreet, F. Zhou, D. Wu and E. Mutai. Milk-derived exosomes and metabolic regulation. *Annual Review of Animal Biosciences*.

With B. Liu, Y. Lu, X. Chen, P. Muthuraj, X. Li, M. Pattabiraman, S. Kachman, S.K. Natarajan and J. Yu. Protective role of shiitake mushroom-derived exosome-like nanoparticles in D-galactosamine and lipopolysaccharide-induced liver injury in mice. *Nutrients*.

With A. Leiferman, J. Shu, B. Upadhyaya and J. Cui. Storage of extracellular vesicles in human milk, and microRNA profiles in human milk exosomes and infant formulas. *Journal of Pediatric Gastroenterology and Nutrition*.

With K.O. Casavale, J.K.C. Ahuja et al. NIH workshop on human milk composition: Summary and visions. *The American Journal of Clinical Nutrition*.

With S.D. Kachman, J. Cui, A.E. Ramer-Tait et al. Dietary depletion of milk exosomes and their microRNA cargos elicits a depletion of miR-200a-3p and elevated intestinal inflammation and chemokine (C-X-C Motif) ligand 9 expression in Mdr1a-/- mice. *Current Developments in Nutrition*.

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Yuzhen Zhou

Statistics

With Ronghao Wang, Yumou Qiu et al. A high-throughput phenotyping pipeline for image processing and functional growth curve analysis. *Plant Phenomics*.

Shengchao Zhuang

Finance

With K.S. Tan, P.Y. Wei and W. Wei. Optimal dynamic reinsurance policies under a generalized Denneberg's absolute deviation principle. *European Journal of Operational Research*.

Ruizhi Zhang

Statistics

With S. Li, L. Wang et al. Temporal logic point processes. *Proceedings of the International Conference on Machine Learning.*

With Zou, S. A game-theoretic approach to sequential detection in adversarial environments. *Proceedings of the IEEE International Symposium on Information Theory.*

With Suh, N., and Mei, Y. Adaptive online monitoring of the Ising model. *Proceedings of the 57th Annual Allerton Conference on Communication, Control, and Computing.*

Sarah J. Zuckerman

Educational Administration

The role of rural school leaders in a school-community partnership. *Theory and Practice in Rural Education*.

Why can't this work here? Social innovation and collective impact in a micropolitan community. *Community Development*.

With Amanda L. Garrett, Susan Sarver and Catherine Huddleston-Casas. Playing well with others: A case study of collective impact in the early care and education policy arena. *International Journal of Childcare and Education Policy*.

CMS Collaboration: Ken Bloom, Dan Claes, Frank Golf, Ilya Kravchenko, Greg Snow et al. Physics and Astronomy

The CMS Collaboration comprises more than 4,000 particle physicists, engineers, computer scientists, technicians and students from around 200 institutes and universities from more than 40 countries.

The collaboration operates and collects data from the Compact Muon Solenoid, one of the general-purpose particle detectors at CERN's Large Hadron Collider in Geneva, Switzerland.

In keeping with CERN's commitment to open access for high-energy physics, the scientific results from CMS are shared openly with the world. A number of faculty members in UNL's Department of Physics and Astronomy are part of the CMS Collaboration and have contributed to an impressive body of literature over the past year.

Measurement of the top quark polarization and t^-t spin correlations using dilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Physical Review D. Oct. 8, 2019.*

Search for dark photons in decays of Higgs bosons produced in association with Z bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Journal of High Energy Physics*. Oct. 10, 2019.

Measurement of the top quark Yukawa coupling from t^-t kinematic distributions in the lepton+jets final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Physical Review D.* Oct. 17, 2019.

Search for supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum. *Journal of High Energy Physics*. Oct. 25, 2019.

Measurement of the average very forward energy as a function of the track multiplicity at central pseudorapidities in proton-proton collisions at $\sqrt{s} = 13$ TeV. The European Physical Journal C. Nov. 5, 2019

Search for MSSM Higgs bosons decaying to $\mu+\mu-$ in proton-proton collisions at $\sqrt{s}=13$ TeV. *Physics Letter B.* Nov. 10, 2019.

Measurements of triple-differential cross sections for inclusive isolated-photon+jet events in pp collisions at $\sqrt{s} = 8$ TeV. The European Physical Journal C. Nov. 25, 2019.

Search for supersymmetry using Higgs boson to diphoton decays at $\sqrt{s} = 13$ TeV. *Journal of High Energy Physics*. Dec. 4, 2019.

Search for anomalous triple gauge couplings in WW and WZ production in lepton + jet events in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Journal of High Energy Physics*. Dec. 9, 2019.

Measurements of differential Z boson production cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Journal of High Energy Physics*. Dec. 9, 2019.

Search for long-lived particles using delayed photons in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Physical Review D.* Dec. 9, 2019.

Search for physics beyond the standard model in events with overlapping photons and jets. *Physical Review Letters*. Dec. 11, 2019.

Study of the $B+ \to J/\psi^- \Lambda p$ decay in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics. Dec. 12, 2019.

Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Physical Review D.* Dec. 20, 2019.

Searches for physics beyond the standard model with the MT2 variable in hadronic final states with and without disappearing tracks in proton-proton collisions at $\sqrt{s} = 13$ TeV. The European Physical Journal C. Jan. 3, 2020.

Search for electroweak production of a vector-like T quark using fully hadronic final states. *Journal of High Energy Physics*. Jan. 8, 2020.

Search for light pseudoscalar boson pairs produced from decays of the 125 GeV Higgs boson in final states with two muons and two nearby tracks in pp collisions at $\sqrt{s} = 13$ TeV. *Physics Letter B.* Jan. 10, 2020.

Search for a charged Higgs boson decaying into top and bottom quarks in events with electrons or muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Journal of High Energy Physics*. Jan. 16, 2020.

Evidence for WW production from double-parton interactions in proton-proton collisions at $\sqrt{s} = 13$ TeV. The European Physical Journal C. Jan. 17, 2020.

Search for supersymmetry with a compressed mass spectrum in events with a soft T lepton, a highly energetic jet, and large missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Physical Review Letters*. Jan. 29, 2020.

Search for production of four top quarks in final states with samesign or multiple leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. The European Physical Journal C. Jan. 31, 2020.

Search for top squark pair production in a final state with two tau leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Journal of High Energy Physics*. Feb. 3, 2020.

Combined search for supersymmetry with photons in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Physics Letter B.* Feb. 10, 2020.

Measurement of the top quark pair production cross section in dilepton final states containing one T lepton in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics. Feb. 28, 2020.

Performance of the reconstruction and identification of highmomentum muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Journal of Instrumentation*. Feb. 28, 2020.

Search for direct pair production of supersymmetric partners to the T lepton in proton-proton collisions at $\sqrt{s} = 13$ TeV. The European Physical Journal C. March 3, 2020.

Bose-Einstein correlations of charged hadrons in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Journal of High Energy Physics*. March 3, 2020.

Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at √s = 13 TeV. *Journal of High Energy Physics*. March 4, 2020.

Search for a heavy Higgs boson decaying to a pair of W bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Journal of High Energy Physics*. March 6, 2020.

Measurement of top quark pair production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Journal of High Energy Physics*. March 10, 2020.

Search for new neutral Higgs bosons through the H \rightarrow ZA \rightarrow I+I-b⁻b process in pp collisions at \sqrt{s} = 13 TeV. *Journal of High Energy Physics*. March 10, 2020.

Observation of the $\Lambda 0b \to J/\psi \Lambda \phi$ decay in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Physics Letter B.* March 10, 2020.

Search for physics beyond the standard model in multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Journal of High Energy Physics*. March 10, 2020.

Search for a heavy pseudoscalar Higgs boson decaying into a 125 GeV Higgs boson and a Z boson in final states with two tau and two light leptons at $\sqrt{s} = 13$ TeV. *Journal of High Energy Physics*. March 11, 2020.

Search for lepton flavour violating decays of a neutral heavy Higgs boson to μT and e T in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Journal of High Energy Physics*. March 18, 2020.

A search for the standard model Higgs boson decaying to charm quarks. *Journal of High Energy Physics*. March 24, 2020.

Search for supersymmetry in pp collisions at $\sqrt{s} = 13$ TeV with 137 fb–1 in final states with a single lepton using the sum of masses of large-radius jets. *Physical Review D.* March 25, 2020.

Search for a narrow resonance lighter than 200 GeV decaying to a pair of muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Physical Review Letters*. April 3, 2020.

Measurement of the t^-tb^-b production cross section in the all-jet final state in pp collisions at $\sqrt{s} = 13$ TeV. *Physics Letter B.* April 10, 2020.

Running of the top quark mass from proton-proton collisions at $\sqrt{s}=13$ TeV. *Physics Letter B.* April 10, 2020.

Study of excited $\Lambda 0b$ states decaying to $\Lambda 0b\pi + \pi -$ in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Physics Letter B.* April 10, 2020.

Constraints on the χ c1 versus χ c2 polarizations in proton-proton collisions at $\sqrt{s} = 8$ TeV. *Physical Review Letters*. April 24, 2020.

Experimental study of different silicon sensor options for the upgrade of the CMS Outer Tracker. *Journal of Instrumentation*. April 24, 2020.

Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Journal of High Energy Physics*. April 27, 2020.

Measurement of properties of B0s \rightarrow $\mu+\mu-$ decays and search for B0 \rightarrow $\mu+\mu-$ with the CMS experiment. *Journal of High Energy Physics*. April 28, 2020.

Calibration of the CMS hadron calorimeters using proton-proton collision data at $\sqrt{s} = 13$ TeV. *Journal of Instrumentation*. May 5, 2020.

Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at \sqrt{s} = 13 TeV. The European Physical Journal C. May 6, 2020.

Search for high mass dijet resonances with a new background prediction method in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Journal of High Energy Physics*. May 8, 2020.

Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment. *Journal of High Energy Physics*. May 8, 2020.

Study of J/ ψ meson production inside jets in pp collisions at $\sqrt{s} = 8$ TeV. *Physics Letter B.* May 10, 2020.

Search for an excited lepton that decays via a contact interaction to a lepton and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Journal of High Energy Physics*. May 12, 2020.

Measurement of the jet mass distribution and top quark mass in hadronic decays of boosted top quarks in pp collisions at $\sqrt{s} = 13$ TeV. *Physical Review Letters*. May 21, 2020.

Determination of the strong coupling constant $\alpha S(mZ)$ from measurements of inclusive W \pm and Z boson production cross sections in proton-proton collisions at $\sqrt{s}=7$ and 8 TeV. *Journal of High Energy Physics*. June 1, 2020.

Identification of heavy, energetic, hadronically decaying particles using machine-learning techniques. *Journal of Instrumentation*. June 3, 2020.

Measurements with silicon photomultipliers of dose-rate effects in the radiation damage of plastic scintillator tiles in the CMS hadron endcap calorimeter. *Journal of Instrumentation*. June 8, 2020.

Search for dijet resonances using events with three jets in proton-proton collisions at $\sqrt{s}=13$ TeV. *Physics Letter B.* June 10, 2020.

A measurement of the Higgs boson mass in the diphoton decay channel. *Physics Letter B.* June 10, 2020.

Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in proton-proton collisions at $\sqrt{s}=13$ TeV and constraints on anomalous quartic couplings. *Journal of High Energy Physics*. June 10, 2020.

Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in PbPb collisions at \sqrt{s} NN = 2.76 and 5.02 TeV. The European Physical Journal C. June 13, 2020.

Strange hadron production in pp and pPb collisions at $\sqrt{s}NN = 5.02$ TeV. *Physical Review C.* June 22, 2020.

Measurement of the top quark forward-backward production asymmetry and the anomalous chromoelectric and chromomagnetic moments in pp collisions at $\sqrt{s}=13$ TeV. *Journal of High Energy Physics*. June 24, 2020.

Presentations at Professional Conferences

Faculty who have presented at professional conferences July 1. 2019–June 30. 2020

UNL co-presenters (identified by those who submitted items for inclusion) designated in red Submitted by faculty, chairs/heads or deans

Troy D. Anderson

Entomology

Presenter/speaker. Impacts of in-hive pesticides on bee health. Entomological Society of America Annual Meeting. Nov. 17-20, 2019.

Presenter/speaker. Sub-lethal impacts of pesticides on bees. Fourth International Conference on Pollinator Biology, Health and Policy, UC Davis Honey and Pollination Center. July 19, 2019.

Trey Andrews

Psychology/Center for Ethnic Studies

Presenter/speaker, with Reyes, S., and Ramos, A.K. Stress predictors for avoidance of care in migrant farm workers. 41st Annual Meeting and Scientific Sessions of the Society of Behavioral Medicine. April 1-4, 2020.

Presenter/speaker, with Acosta, L.M., Haws, J.K., and Acosta Canchila, M.N. Extending written exposure therapy to Spanish-speaking immigrants: Treatment perceptions and open pilot trial outcomes for overcoming PTSD. Annual Conference of the National Latinx Psychological Association. Oct. 2019.

Poster presenter, with Acosta, L.M., Acosta Canchila, M.N., and Haws, J.K. Barriers and facilitators of treatment completion among Spanish-speaking immigrants receiving a novel PTSD treatment. Annual Conference of the National Latinx Psychological Association. Oct. 2019.

Poster presenter, with Acosta Canchila, M.N., Acosta, L.M., and Haws, J.K. Perceived barriers to written exposure therapy and mental health treatments: Differences across treatment providers and users. Annual Conference of the National Latinx Psychology Association. Oct. 2019.

Christos Argyropoulos Electrical and Computer Engineering

Presenter/speaker, with B. Jin. Robust self-induced nonreciprocal transmission in nonlinear pt-symmetric epsilon-near-zero metamaterials. Conference on Lasers and Electro-Optics Technical Conference. May 10-15, 2020.

Presenter/speaker, with D.S. Khatri, Y. Li, J. Chen, E.A. Kwizera, X. Huang and T.B. Hoang. Plasmon-assisted coherent random lasing. American Physical Society March Meeting. March 2-6, 2020.

Presenter/speaker, with Y. Li. Epsilon-near-zero plasmonic nanowaveguides to achieve efficient resonance energy transfer and quantum entanglement. American Physical Society March Meeting. March 2-6, 2020.

Presenter/speaker, with B. Jin. Strong nonreciprocal transmission self-induced by nonlinear PT-symmetric metamaterials. American Physical Society March Meeting. March 2-6, 2020.

Presenter/speaker, with T. Guo, B. Jin, L. Zhu and P. Y. Chen. Tunable THz generation and enhanced nonlinear effects with active and passive graphene hyberolic metamaterials. International Society for Optics and Photonics (SPIE) West. Feb. 1-6, 2020.

Presenter/speaker, with B. Jin. Strong self-induced nonreciprocal transmission by using nonlinear PT-symmetric epsilon-near-zero metamaterials. SPIE Photonics West. Feb. 1-6, 2020.

Presenter/speaker, with Y. Li. Active epsilon-near-zero plasmonic waveguides to achieve exceptional points and light amplification at the nanoscale. SPIE Photonics West. Aug. 11-15, 2019.

Presenter/speaker, with E. O'Leary. Time and frequency domain modeling of thermo-plasmonic effects. National Nanotechnology Coordinated Infrastructure Research Experience for Undergraduates Convocation, hosted by Cornell Nanoscale Facility. Aug. 10-13, 2019.

Presenter/speaker, with T. Guo. Polarization-independent and broadband THz coherent perfect absorber based on black phosphorus bifacial metasurfaces. Institute of Electrical and Electronics Engineers International Symposium on Antennas and Propagation and North American Radio Science Meeting. July 7-12, 2019.

Presenter/speaker, with Y. Li. Slow light at the nanoscale based on active epsilon-near-zero plasmonic waveguides, Institute of Electrical and Electronics Engineers International Symposium on Antennas and Propagation and North American Radio Science Meeting. July 7-12, 2019.

Jena Asgarpoor Master of Engineering Management Program

Presenter/speaker, with Majid Nabavi. Online versus residential exam and course average performance: A comparative assessment. Innovation in Pedagogy and Technology Symposium. May 12, 2020.

Presenter/speaker, with Yaoling Wang. Program management strategies and student success practices for a fully asynchronous online professional master's program. Innovation in Pedagogy and Technology Symposium. May 12, 2020.

Rachel Azima English

Presenter/speaker, with Kelsey Hixson-Bowles and Neil Simpkins. Crafting our conferences: The racial climate survey for writing center professional gatherings. International Writing Center Association Conference. Oct. 16-19, 2019.

Diane Barger Glenn Korff School of Music

Panel discussion participant, with Sarah Watts, Elizabeth Crawford et al. Auxiliary clarinets. The ICA Plays On, International Clarinet Association. June 27, 2020.

Panel discussion participant, with Denise Gainey. Interview with the Amicitia Duo: Commissioning, recording, and friendship. Clarinet Connections, Clarinet Mentors. May 11, 2020.

Steven M. Barlow Special Education and Communication Disorders/ Biological Systems Engineering/ Center for Brain, Biology and Behavior

Presenter/speaker, with Jaehoon Lee, Rebecca Custead et al. Orofacial and digit force dynamics in chronic MCA ischemic stroke. International Motor Speech Conference. Feb. 2020.

Nathan Bicak Interior Design

Presenter/speaker, with Steven Hardy. Participatory processes in a collaborative design studio. EDRA 51 - Transform: Socially Embedded Collaboration, Environmental Design Research Conference. April 5, 2020.

Christopher Bilder Statistics

Presenter/speaker, with Mokalled, S., McMahan, C., et al. Acknowledging the dilution effect in group testing regression: A new approach. Eastern North American Region of the International Biostatistics Society Meeting. March 24, 2020.

Presenter/speaker, with McMahan, C., Tebbs, J., and Joyner, C. From mixed-effects modeling to spike and slab variable selection: A Bayesian regression model for group testing data. International Conference of the European Research Consortium for Informatics and Mathematics Working Group on Computational and Methodological Statistics. Dec. 14, 2019.

Presenter/speaker. In or out? The new flagstick dilemma for putting in golf. Midwest Sports Analytics Meeting. Nov. 23, 2019.

Presenter/speaker, with McMahan, C., Liu, Y., and Tebbs, J. An additive regression model for group testing data. Institute for Operations Research and the Management Sciences Annual Meeting. Oct. 20, 2019.

Presenter/speaker. In or out? The new flagstick dilemma for putting in golf. New England Symposium on Statistics in Sports. Sept. 28, 2019.

Presenter/speaker, with Tebbs, J., and McMahan, C. Strategies for pooling in array testing configurations with multiplex assays. Joint Statistical Meetings. July 30, 2019.

Erin Blankenship Statistics

Presenter/speaker. Lessons learned: Revising an online introductory course. Joint Statistics Meetings. Aug. 2019.

Presenter/speaker. Lessons learned: Revising an online introductory course. Invited webinar sponsored by the American Statistical Association Section on Teaching Statistics in the Health Sciences. Nov. 2019.

Kenneth Bloom Physics and Astronomy

Presenter/speaker (for the CMS Collaboration). Search for associated production of a Higgs boson and a single top quark in proton-proton collisions at vs= 13 TeV. Meeting of the Division of Particles and Fields of the American Physical Society. July 29-Aug. 2, 2019.

Presenter/speaker (for the D0 Collaboration). Measurement of the W pT distribution in proton-antiproton collisions at D0. Meeting of the Division of Particles and Fields of the American Physical Society. July 29-Aug. 2, 2019.

David J. Boxler Entomology

Presenter/speaker, with G. Brewer. Nebraska research report. S-1076 Committee Annual Meeting. Jan. 15-17, 2020.

Jeff D. Bradshaw Entomology

Presenter/speaker, with Peterson J., Wright R., Hunt, T., and McMechan, A.J. Improving IPM adoption through clientele collaboration in applied ecology. Entomological Society of America Annual Meeting. Nov. 20, 2019.

Anita Breckbill University Libraries

Presenter/speaker. Dvořák and the birds of Spillville, Iowa. Mountain-Plains Music Library Association Annual Meeting. May 15, 2020.

Tami Brown-Brandl Biological Systems Engineering

Presenter/speaker. Using data streams to create management information. American Society of Swine Veterinarians. March 2020.

Presenter/speaker. Precision animal management: The future of animal ag? American Dairy Science Association/American Society of Animal Science Midwest Meeting. March 2020.

Presenter/speaker. Bringing technology to animal production facilities. University of Nebraska at Omaha Seminar Series. Department of Biomechanics and the Center for Research in Human Movement Variability. Oct. 2019.

Presenter/speaker. Monitoring animal health and welfare with data streams. International Symposium on Precision Systems and Data Analysis in Animal Agriculture. Sept. 2019.

Stephen M. Buhler English

Presenter/speaker. The politics of necromancy, opening remarks for seminar on the supernatural and transcendent in Shakespeare on screen. Shakespeare Association of America Annual Meeting. April 15-18, 2020.

Presenter/speaker. The dramaturg's progress: A question of audiences. Blackfriars Conference, American Shakespeare Center. Oct. 22-27, 2019.

Anthony J. Bushard Glenn Korff School of Music

Presenter/speaker. "What to do over the week-end": Towards an understanding of distraction, advertising and newspaper coverage of the Kansas City jazz scene in the 1930s. Documenting Jazz 2020, Birmingham City University, UK. Jan. 16-18, 2020.

Presenter/speaker. Creating interactive content for the 21st Century music student: Reinvigorating text development in the foundational course and beyond. National Meeting of the American Musicological Society. Oct. 31-Nov. 3, 2019.

Les Carlson Marketing

Presenter/speaker, with Robert L. Harrison and Ben Blackford. Consumer responses to sexual humor advertisements. Association for Consumer Research Science 50th Annual Conference, Become Wise: The Golden Anniversary of ACR. Oct. 17-20, 2019.

Presenter/speaker, with Jie G. Fowler. An examination of consumers' perceptions of cosmeceutical advertising claims. World Marketing Congress, Academy of Marketing Science. July 1, 2019.

Theresa Catalano Teaching, Learning and Teacher Education

Keynote speaker. Social action, social change and social justice: The link to critical discourse analysis/studies. XXV Symposium on Research in Applied Linguistics and VII International Symposium on Literacies and Discourse Studies. Nov. 6-7, 2019.

Presenter/speaker. Interdisciplinary approaches: Critical discourse analysis/studies and (language) education. XXV Symposium on Research in Applied Linguistics and VII International Symposium on Literacies and Discourse Studies. Nov. 6, 2019.

Presenter/speaker, with Castillo, M. Who are dual language programs for? De-mystifying ideas about who can benefit from bilingual education. Mid-America Teachers of English to Speakers of Other Languages Annual Conference. Sept. 27-28, 2019.

Jennifer Clarke Statistics/Food Science and Technology

Presenter/speaker, with Wilhelm, B. Training for cross-disciplinary research and science as a team sport. Summer 2019 Conference of the Merrill Advanced Studies Center. July 11-12, 2019.

Panel discussion participant. Science on screen. Midwest Theatre, UNL Panhandle Research and Extension Center. Oct. 2019.

Matt Cohen English

Keynote speaker, with Nicole H. Gray. Walt Whitman's Leaves. Textual Studies and the Nonhuman Turn: A Symposium. Nov. 21, 2020.

Rochelle L. Dalla Child. Youth and Family Studies

Presenter/speaker, with Kaitlin Roselius, Sarah Erwin, Jessie Peter and Alexis Thrasher. A matter of money: Economics and family dynamics among the Bedia. National Council on Family Relations Conference. Nov. 20-23, 2019.

Presenter/speaker, with Sarah Erwin and Lee Kreimer. Children of Mumbai's brothels: Investigating developmental prospects, primary relationships, and service provision. Society for the Scientific Study of Sexuality Annual Meeting. Nov. 7-10, 2019.

Presenter/speaker, with Kaitlin Roselius, Sarah Erwin, Jessie Peter and Alexis Thrasher. Family-sanctioned sex trafficking: Studying risk and male partner relational dynamics among the Bedia of India. Society for the Scientific Study of Sexuality Annual Meeting. Nov. 7-10, 2019.

Presenter/speaker, with Jessie Peter and Cody Hollist.

Intergenerational parenting values and its impact on child rearing practices among survivors of sex trafficking (SST) across four cities in India. International Human Trafficking and Social Justice Conference. Sept. 19-20, 2019.

Presenter/speaker, with Sarah Erwin and Jessie Peter. First responders' ability to identity victims and address survivors' needs. International Human Trafficking and Social Justice Conference. Sept. 19-20, 2019.

Lory J. Dance Sociology/Institute for Ethnic Studies

Presenter/speaker. Newspaper discourses, theatrical estrangement, and at-risk students in Sweden and the U.S. Young People and Difference Symposium. Dec. 5-6, 2019.

Panel discussion participant, with Torun Elsrud. Difference in global perspectives. Young People and Difference Symposium. Dec. 5-6, 2019.

Presenter/speaker. "Move [snitch]. Get out da way!": Challenging IRB and mainstream researcher arrogance about under-represented populations. American Indigenous Research Association Meeting. Oct. 10-12, 2019.

Presenter/speaker. Forcibly removed: Homeland detachments of international and indigenous refugees. The Society for the Study of Social Problems 69th Annual Meeting. Aug. 9-11, 2019.

Jennifer Davidson Economics

Presenter/speaker. Lasting effects from participation in an elementary grades savings program. 58th Annual Financial Literacy and Economic Education Conference. Oct. 4, 2019.

Stuart Dearden Accountancy

Presenter/speaker, with Cory Cassell, David Rosser and Jonathan Shipman. The effect of confirmation bias on auditors' risk assessments: Archival evidence. American Accounting Association Auditing Midyear Meeting. Jan. 16-18, 2020.

Presenter/speaker, with Jodi Henley and Quinn Swanquist. Do audit characteristics affect provisional-tax-estimate accuracy when regulatory risk is low? Brigham Young University Accounting Research Symposium. Sept. 2019.

Kiyomi D. Deards University Libraries

Presenter/speaker, with Mark Puente. Moving from talk to action: What does successful institutional change related to equity, diversity, and inclusion (EDI) look like? IDEAL '19: Advancing Inclusion, Diversity, Equity, and Accessibility in Libraries & Archives. Aug. 7, 2020

Presenter/speaker, with Mark Puente. Moving from talk to action: What does successful institutional change related to equity, diversity, and inclusion (EDI) look like? IDEAL '19: Advancing Inclusion, Diversity, Equity, and Accessibility in Libraries & Archives. Aug. 7, 2019.

Dipti A. Dev Child, Youth, and Family Studies

Presenter/speaker, with Evan Choi, Donnia Behrends et al. Differential effectiveness of Go NAP SACC in urban and rural childcare centers. Society for Nutrition Education and Behavior Annual Conference. July 27, 2019.

Presenter/speaker, with Jasmin Smith, Evan Choi, Lisa Franzen-Castle, Donnia Behrends, Vanessa Wielenga et al. Implementation of and barriers to nutrition best practices in urban and rural Nebraska child care settings. Society for Nutrition Education and Behavior Annual Conference. July 27, 2019.

Presenter/speaker, with Deepa Srivastava. Examining nutrition practices across early childhood education programs in two rural counties of California. Society for Nutrition Education and Behavior Annual Conference. July 27, 2019.

Presenter/speaker, with Saima Hasnin, Holly Hatton-Bowers, Lisa Franzen-Castle et al. EAT family-style dining intervention improves child care providers' responsive feeding practices and children's dietary intake. Society for Nutrition Education and Behavior Annual Conference. July 27, 2019.

Presenter/speaker, with Saima Hasnin and Alison Tovar. Participation in the food program ensures availability of nutritious foods but not intake in children attending childcare. Society for Nutrition Education and Behavior Annual Conference. July 27, 2019.

Presenter/speaker, with Maha Elrakaiby and Saima Hasnin. Feasibility, acceptability and effectiveness of "read for nutrition" program in childcare settings. Society for Nutrition Education and Behavior Annual Conference. July 27, 2019.

Angela M. Dietsch Special Education and Communication Disorders

Presenter/speaker, with Ross Westemeyer and Douglas H. Schultz. Brain activity and swallowing biomechanics associated with taste stimulation and genetics. Annual Meeting of the Dysphagia Research Society. March 17-20, 2020.

Shudipto K. Dishari Chemical and Biomolecular Engineering

Presenter/speaker. Nature-inspired ion conducting polymers for energy conversion and storage devices, 2020 North American Membrane Society Conference. May 18-21, 2020.

Presenter/speaker, with Seefat Farzin. Exploring zone-specific proton transport of ionomers under confinement via confocal laser scanning microscopy. American Institute of Chemical Engineers Annual Meeting. Nov. 10-15, 2019.

Presenter/speaker, with Seefat Farzin. Lignin-based ion conducting polymers with controlled ion exchange capacities (IECs) for energy conversion and storage device. American Institute of Chemical Engineers Annual Meeting. Nov. 10-15, 2019.

Presenter/speaker, with Ehsan Zaman. Antimicrobial activity of cationic conjugated oligo/polyelectrolytes against wild-type and antibiotic-resistant bacteria. American Institute of Chemical Engineers Annual Meeting. Nov. 10-15, 2019.

Thomas Dotzel Marketing

Presenter/speaker, with Venkatesh Shankar. The effects of new goods, new services, and new software on firm value and risk. Mays Innovation Research Center, Texas A&M University. June 1, 2020.

Katie Edwards

Nebraska Center for Research on Children, Youth, Families and Schools

Presenter/speaker, with Banyard, V. Strengths in understanding wellbeing of adolescent survivors of interpersonal violence: Buffering or direct effects? Society for Social Work and Research. Jan. 15-19, 2020.

Presenter/speaker, with Banyard, V. Youth actionists to prevent disparities caused by peer violence. Society for Social Work and Research. Jan. 15-19, 2020.

Presenter/speaker, with Dardis, C., DePrince, A., et al. Outcomes of a transitional living program for women with histories of substance use and victimization. Annual meeting of the American Psychological Association. April 25-29, 2020.

Presenter/speaker, with Siller, L., Murphy, S., et al. Reactions to participating in trauma and addiction research among women in a sober living home. Association for Women in Psychology. March 5-8, 2020

Presenter/speaker, with Siller, L., Wheeler, L., et al. Effectiveness of a sexual assault self-defense program for American Indian youth. Society for Prevention Research 28th Annual Meeting. May 26-29, 2020.

Presenter/speaker, with Waterman, E.A., Ullman, S.E., et al. Predictors of disclosure recipients' social reactions to disclosures of dating and sexual violence. Annual meeting of the American Psychological Association. Aug. 6-9, 2020.

Presenter/speaker, with Sall, K., Lim, S., et al. Assessing campus community readiness to address IPV among LGBQ+ Students. Annual meeting of the American Psychological Association. Aug. 6-9, 2020.

Presenter/speaker, with Siller, L., Callery, M., et al. A promising approach to transitional housing: A study of a substance use and victimization recovery housing program. International Family Violence and Child Victimization Research Conference. July 12-14, 2020.

Presenter/speaker, with Waterman, E.A., Hutchison, C., et al. Implementation of a community-wide, youth-led sexual violence prevention initiative: A qualitative examination. Society for Prevention Research. May 26-29, 2020.

Invited presenter, with Herrington, R. Preventing sexual violence at all levels of the social ecological model: Creative strategies and COVID-19 considerations. Sexual Violence Prevention Planning Committee Meeting. May 19, 2020.

Invited presenter, with Banyard, V. The evolution of a logic model to evaluate a youth-led sexual violence prevention initiative. United States Department of Defense Sexual Assault Prevention and Response. March 17, 2020.

Poster presenter, with Banyard, V. Youth actionists to prevent disparities caused by peer violence. Annual Meeting of the Society for Social Work and Research. Jan. 15-19, 2020.

Camp, E.E., Banyard, V.L., et al. Lessons learned: Conducting sexual violence research with Native American youth populations. Annual Convention of the American Psychological Association. Aug. 6-9, 2020.

Banyard, V. L., Mitchell, K., and Jones, L. Youth actionists to prevent disparities caused by peer violence. Society for Social Work Research. Jan. 15-19, 2020.

Poster presenter, with Wormwood, J., Banyard, V., et al. Alcohol use and unwanted sexual experience among graduate students. Annual Meeting of the American Psychological Association. May 21-24, 2020.

Lynne Elkins

Earth and Atmospheric Sciences

Keynote speaker. A review of magma generation beneath North Atlantic mid-ocean ridges. American Geophysical Union 2019 Chapman Conference on Large-Scale Volcanism in the Arctic. Oct. 2019.

Presenter/speaker, with M. Spiegelman. Development of U-series disequilibrium melting and transport models using Jupyter and Python. Goldschmidt Conference, the Geochemical Society. Aug. 2019

Presenter/speaker, with Meyzen, C.M., Callegaro, S., Marzoli, A. Melting of subduction modified mantle and continental crustal assimilation recorded by end-Triassic tholeiites from southern Eastern North America. American Geophysical Union Fall Meeting. Dec. 2019.

Presenter/speaker. Vertical streamline integration of U-series disequilibria in basalts. Goldschmidt Conference (virtual), the Geochemical Society. June 2020.

Ilya Fabrikant

Physics and Astronomy

Presenter/speaker. Recent advances in the theory of dissociative electron attachment. XXI International Symposium on Electron-Molecule Collisions and Swarms. July 18-21, 2019.

Presenter/speaker. Recent advances in the theory of electron attachment to molecules and clusters. The Ninth International Symposium: Atomic Cluster Collisions. July 31-Aug. 3, 2019.

Presenter/speaker. Electron attachment to molecules in condensed-matter and cluster environments. Second ELENA (Low energy ELEctron driven chemistry for the advantage of emerging NAnofabrication methods) Conference, Marie Sklodowska-Curie Innovative Training Network. Sept. 4-6, 2019.

Presenter/speaker. Dissociative electron attachment at ultra-low energies. International Workshop on Dynamical Methods for Cold Molecular collisions – DYMCOM. Nov. 25-29, 2019.

Charles A. Francis

Agronomy and Horticulture

Presenter/speaker, with Geir Lieblein, Tor Arvid Breland and Anne Marie Nicolaysen. Becoming an effective catalyst for learning: How teachers transform themselves. European Network of Agroecology and Agroecology Teachers Annual Conference. Sept. 26-27, 2019.

Presenter/speaker, with David Lambe. Entrepreneurship learning for organic marketing. European Network of Organic Agriculture and Agroecology Teachers. Sept. 27-28, 2019.

Amanda Ganshert

Bureau of Sociological Research

Presenter/speaker, with Jolene Smyth, Shanshan Deng and Lindsey Witt-Swanson. Visual design experiments on income questions. American Association for Public Opinion Research. June 2020.

Marc Garcia

Sociology/Center for Ethnic Studies

Presenter/speaker, with Adriana M. Reyes, Catherine García et al. Demographic heterogeneity in life expectancies with functional limitations among older Hispanics in the United States. Population Association of America Annual Meeting. April 22-25, 2020.

Poster presenter, with Kasim Ortiz, Sandra Arevalo et al. Age of migration and cognitive functioning among older Latinos in the United States. Population Association of America Annual Meeting. April 22-25, 2020.

Presenter/speaker, with Catherine Garcia and David Warner. Sociocultural variability in self-reported cognitive impairment among older Latino subgroups in the United States. Gerontological Society of America Annual Meeting. Nov. 3-17, 2019. Presenter/speaker, with Kasim Ortiz, Sandra Arevalo et al. Age of migration and cognitive functioning among older Latinos in the United States. International Conference on Aging in the Americas. Sept. 30-Oct. 2, 2019.

Presenter/speaker, with Adriana M. Reyes. Racial/ethnic and nativity differentials in cognitive trajectories. American Sociological Association 114th Annual Meeting. Aug. 10-13, 2019.

Roundtable discussion participant, with Catherine Garcia, Adriana M. Reyes, and Chi-Tsun Chiu. Variations in functional life expectancies among older Hispanics in the United States by nativity and country of origin. American Sociological Association 114th Annual Meeting. Aug. 10-13, 2019.

Sue Ann Gardner

University Libraries

Presenter/speaker, with Paul Royster. Small but mighty: How a team of four administers a robust library publishing program. International Federation of Library Associations Special Interest Group on Library Publishing. March 5-6, 2020.

Presenter/speaker, with Andrew Cano and Paul Royster. Global reach: Use of the Nebraska Digital Commons in 3 LMI countries. CERN-UNIGE Workshop on Innovations in Scholarly Communication. June 19-21, 2019.

Presenter/speaker. Open access textbook project. CERN-UNIGE Workshop on Innovations in Scholarly Communication. June 19-21, 2019.

Panel discussion moderator, with Ruth Okediji, Stephen LaPorte and Dinusha Mendis. Copyright. CERN-UNIGE Workshop on Innovations in Scholarly Communication. June 19-21, 2019.

Marques L.A. Garrett

Glenn Korff School of Music

Presenter/speaker. The music and legacy of R. Nathaniel Dett. National Association of Negro Musicians 100th Anniversary Convention. July 14-17, 2019.

Presenter/speaker. Beyond Elijah Rock: The non-idiomatic choral music of Black composers. National Collegiate Choral Organization Biennial Conference. Nov. 7-9, 2019.

Souparno Ghosh

Statistics

Presenter/speaker. Coherent multivariate feature selection and inference across multiple databases. International Conference on Statistical Distribution and Application. Oct. 11-12, 2019.

Danni Gilbert Glenn Korff School of Music

Presenter/speaker. An examination and comparison of the perceived levels of anxiety and depression of university music majors and non-music majors. 11th Annual International Conference on Visual and Performing Arts, Athens Institute for Education and Research. June 7-10, 2020.

Presenter/speaker. An examination and comparison of the perceived levels of anxiety and depression of university music majors and non-music majors. Florida Music Educators Association Conference. Jan. 10, 2020.

Presenter/speaker. So you want to be a music education major? Here's what you need to know. Nebraska Music Educators Association Conference. Nov. 21-23, 2019.

Presenter/speaker. An examination and comparison of the perceived levels of anxiety and depression of university music majors and non-music majors. Gordon Institute for Music Learning International Conference. July 31, 2019.

Iker González-Allende Modern Languages and Literatures

Presenter/speaker. Basque exiled women in the United States: Gender and national identity in *Basque Girl* (1940), by Mirim Isasi. Keeping Spain's Exile in the Americas and Maryland Alive In Our Hearts (1939-1989-2019). Oct. 23-24, 2019.

Presenter/speaker. Literatura juvenil vasca en Estados Unidos: Género e identidad nacional en el exilio en *White Stars of Freedom* (1942), de Mirim Isasi y Melcena Burns Denny. XXIX Congreso Internacional de la Asociación de Estudios de Género y Sexualidades: CreadorAS en la Educación Literaria e Intercultural. July 18-20, 2019.

Tricia Gray Teaching, Learning and Teacher Education

Panel discussion participant, with Phillips, A. Collaborative agency in constrained spaces. Annual meeting of the American Anthropological Association. Nov. 2019.

Mark Griep Chemistry

Keynote speaker. Everything I know about chemistry, I learned at the movies. Southeastern Undergraduate Research Conference, University of Alabama. Jan. 24, 2020.

Keynote speaker. A periodic table of chemistry in the movies. Conference for Undergraduate Women in Physical Sciences, Nebraska Materials Research Science and Engineering Center. Nov. 6-10, 2019. Yawen Guan Statistics

Presenter/speaker, with H. Wang and B. Reich. Nearest-neighbor neural networks for geostatistics. International Conference on Data Mining Workshops. Nov. 8-11, 2019.

Presenter/speaker. Spatiotemporal air pollution analysis using mobile monitors on Google Street View vehicles. Joint Statistical Meeting. Aug. 2019.

Presenter/speaker. A comparison of statistical and machine learning methods for creating national daily maps of ambient PM2.5 concentration. U.S. Environmental Protection Agency. Feb. 2020.

Presenter/speaker. Multivariate spectral downscaling for multiple air pollutants. ENAR Spring Meeting. March 2020.

Shivam Gupta Supply Chain Management and Analytics

Presenter/speaker. Analyzing the impact of one-Europe policy on agribusiness markets. Institute for Operations Research and the Management Sciences (INFORMS) Annual Meeting. Oct. 20-23, 2019.

Presenter/speaker. Procurement with cost and non-cost attributes: Cost-sharing mechanisms. INFORMS Annual Meeting. Oct. 20-23, 2019.

Rumiko Handa Architecture

Presenter/speaker. Time and imperfection. Conserving Active Matter: Philosophy—Degradation as an Aesthetic Value, Bard Graduate Center in New York, supported by the Andrew W. Mellon Foundation. Nov. 2019.

Presenter/speaker. Urban aesthetics: Positive imperfection in contemporary architecture. Aesthetics and Ethics of Imperfection, Kansai University, Osaka, Japan. Feb. 2020.

Michael Hoff Art, Art History and Design

Presenter/speaker. Antiochia ad Cragum in Rough Cilicia 2019. AKMED Arkeolojik Kazilar Webinari, Suna and Inan Kiraç Research Center for Mediterranean Civilizations, Koç University, Antalya, Turkey. June 10, 2020.

Soo-Young Hong Child, Youth and Family Studies

Presenter/speaker. Early childhood science teaching and learning. University of Sao Paulo Early Childhood Workshop. Nov. 2020.

Terry J. Housh

Nutrition and Health Sciences

Presenter/speaker, with J.P.V. Anders, J.L. Keller, C.M. Smith, E.C. Hill, T.J. Neltner, R.J. Schmidt and G.O. Johnson. Performance fatigability and the bilateral deficit during maximal, isokinetic leg extensions in men and women. National Strength and Conditioning Association Annual Meeting. July 2020.

Presenter/speaker, with T.J. Neltner, J.P.V. Anders, J.L. Keller, K. Hergenrader, R.J. Schmidt and G.O. Johnson. The relative contributions of muscle cross-sectional area, muscle quality, and sex to the prediction of maximal isometric leg extension force. National Strength and Conditioning Association Annual Meeting. July 2020.

Presenter/speaker, with J.L. Keller, J.P.V. Anders, T.J. Neltner, R.J. Schmidt and G.O. Johnson. Sex-specific muscle activation during fatiguing tasks anchored to low and high perceptual based loads. National Strength and Conditioning Association Annual Meeting. July 2020.

Presenter/speaker, with J.L. Keller, J.P.V. Anders, T.J. Neltner, K.J. Hergenrader, R.J. Schmidt and G.O. Johnson. Relative contributions of muscular strength, muscle size, and tissue oxygenation to isometric performance fatigability. Medicine and Science in Sports and Exercise, American College of Sports Medicine Annual Meeting. May 2020.

Presenter/speaker, with T.J. Neltner, J.P.V. Anders, C.M. Smith, J.L. Keller, E.C. Hill, R.J. Schmidt and G.O. Johnson. Fatigue-induced changes in neuromuscular responses during maximal bilateral leg extensions. American College of Sports Medicine Annual Meeting. May 2020.

Presenter/speaker, with J.P.V. Anders, J.L. Keller, C.M. Smith, E.C. Hill, T.J. Neltner, R.J. Schmidt and G.O. Johnson. Performance fatigability and neuromuscular patterns of responses for bilateral versus unilateral leg extensions in men. American College of Sports Medicine Annual Meeting. May 2020.

Reka Howard Statistics

Presenter/speaker. Response surface analysis of genomic prediction accuracy values using quality control covariates in soybean. INFORMS. Oct. 22, 2019.

Presenter/speaker. Response surface analysis of genomic prediction accuracy values using quality control covariates in soybean. 12th International Conference of the ERCIM WG on Computational and Methodological Statistics. Dec. 16, 2019.

Qing Hui

Electrical and Computer Engineering

Presenter/speaker, with Haopeng Zhang. A coupled spring forced bat searching algorithm: Design, analysis and evaluation. 2020 American Control Conference. June 2020.

Thomas E. Hunt

Entomology

Presenter/speaker, with Heng-Moss, T. Soybean tolerance to the soybean aphid, *Aphis glycines*. XIX International Association of Plant Protection Sciences Congress. Nov. 12, 2019.

Jamie Hyodo Marketing

Presenter/speaker, with Matthew Hall. I should have tried that: The risks of serving growth-minded consumers in an increasingly DIY marketplace. American Marketing Association Winter Marketing Educators' Conference. Feb. 22-24, 2020.

Presenter/speaker, with Matthew Hall and Alix Barasch. When likes lead to liking: How post-consumption attention enhances experience satisfaction. American Marketing Association Winter Marketing Educators' Conference. Feb. 22-24, 2020.

Presenter/speaker, with Lisa E. Bolton. How does religion affect consumer response to failure and recovery by firms? American Marketing Association Consumer Behavior Special Interest Group. July 5-7, 2019.

Presenter/speaker, with Matthew Hall. The risks of serving growth-minded consumers in an increasingly DIY marketplace. American Marketing Association Consumer Behavior Special Interest Group. July 5-7, 2019.

Aaron Johnson Teaching, Learning and Teacher Education

Presenter/speaker, with Scribner, G. Exploring one enslaved woman's power through scaffolded digital storytelling. National Council for History Education Annual Conference. March 19-21, 2020.

Presenter/speaker, with Yoder, P. "I'm bored?" Promoting agency among English learners through authentic inquiry. National Council for the Social Studies Annual Conference. Nov. 22-24, 2019.

Jennifer Johnson Jorgensen

Textiles, Merchandising and Fashion Design

Presenter/speaker. Owner and community involvement and business success in small family-owned businesses. United States Association of Small Business and Entrepreneurship Annual Conference. Jan. 3-7, 2020.

Presenter/speaker. The influence of social networking websites on the socialization of the baby boomer generation. International Textile and Apparel Association Annual Conference. Nov. 18-20, 2019.

Steve Kachman Statistics

Presenter/speaker. Design and interpretation. Nebraska Microbiome Research Interest Group Symposium, University of Nebraska Medical Center. May 28, 2020.

Alice Kang Political Science/Institute for Ethnic Studies

Presenter/speaker. Who represents the poor in Burkina Faso's national assembly? African Studies Association. Nov. 2019.

Presenter/speaker with Nam Kyu Kim. External security threats and attitudes toward male and female leaders. American Political Science Association. Sept. 2019.

Presenter/speaker with Maria Escobar-Lemmon, Valerie Hoekstra and Miki Kittilson. Breaking the judicial glass ceiling. European Conference on Politics and Gender. July 2019.

Brian M. Kelly Architecture

Presenter/speaker. Photogrammetry and social media in the development of virtual space. Connections: Exploring Heritage, Architecture, Cities, Art Media. Architecture, Media, Politics, Society. June 29, 2020.

Taeyeon Kim Educational Administration

Presenter/speaker. School leaders' perceptions of and responses to accountability: Multiple meanings and ethical dilemmas. University Council for Educational Administration Convention. Nov. 2019.

Presenter/speaker, with Charles Lowery. Who should get "ineffective"? Ethical dilemmas in leadership decisions. University Council for Educational Administration Convention. Nov. 2019.

Lisa Knoche

Nebraska Center for Research on Children, Youth, Families and Schools

Presenter/speaker, with Amy Bunnell and Sarah Carter. Family partnerships in early intervention: Two states' collaborations with higher education. Office of Special Education Programs Leadership Conference, U.S. Department of Education. July 2019.

Natalie A. Koziol

Nebraska Center for Research on Children, Youth, Families and Schools

Presenter/speaker. An investigation of sample weighted multilevel propensity score analysis. American Psychological Association Convention. Aug. 2019.

Presenter/speaker, with J. Marc Goodrich and HyeonJin Yoon.
Differential functioning of English and Spanish-adapted kindergarten mathematics achievement items: A regression discontinuity design application. American Educational Research Association Annual Meeting. April 2020.

Patty Kuo

Child, Youth and Family Studies

Presenter/speaker, with Sonny Bechayda, Abet Bas and Lee Gettler. Parents' gender dynamics in childhood predict men's later marital quality: Evidence from Cebu, Philippines. National Council on Family Relations 81st Annual Conference. Nov. 2019.

Yingchao Lan Supply Chain Management and Analytics

Presenter/speaker. Cost implication of freelancer physicians. 2019 INFORMS Healthcare Conference, INFORMS. July 2019.

Panel discussion participant. Designing Interactive Systems doctoral consortium. Decision Science Institute Annual Conference. Nov. 2019.

Elizabeth Lewis Teaching, Learning and Teacher Education

Presenter/speaker, with Lucas, L., Tankersley, A., Hasseler, E., et al. Predictors of inquiry-based science teaching. European Science Education Research Association. Aug. 2019.

Presenter/speaker, with Rivero, A. Reflection and inquiry-based teaching: Exploring reflective practices in beginning secondary science teachers. European Science Education Research Association. Aug. 2019.

Joe Louis Entomology

Keynote speaker. Conventional and omic approaches to integrate host plant resistance in IPM. XIX International Association of Plant Protection Sciences Congress. Nov. 2019.

Andre Maciel Marketing

Presenter/speaker, with Eileen Fischer. Collaborative market driving: Conceptualizing collective action in market orientation strategies. Association for Consumer Research North American Conference. Oct. 17-20, 2019.

Presenter/speaker, with Michelle Weinberger. The logic and practices of consumers who fund businesses: A study of crowdfunding. Consumer Culture Theory Conference. July 17-19, 2019.

Lorraine Males Teaching, Learning and Teacher Education

Presenter/speaker, with Block, S. Examining equitable participation in a professional learning community using the EQUIP tool. Mathematics Teacher Education-Partnership. June 2020.

Presenter/speaker, with Smith, W.M. Transforming secondary mathematics teacher preparation across a state: Promises and challenges. Mathematics Teacher Education-Partnership. Aug. 2019.

Presenter/speaker, with Buchbinder, O. Learning to plan instructional units: Re-examining the grain-size in teacher preparation. Association of Mathematics Teacher Educators. Feb. 2020.

Presenter/speaker, with Raygoza, M.C., Lischka, A.E., et al. Humanizing approaches to grading with mathematics pre-service teachers: Navigating and pushing beyond systems. Association of Mathematics Teacher Educators. Feb. 2020.

Presenter/speaker, with Quigley, K., Block, S., and Setniker, A. Using curricular noticing to examine teachers' use of curriculum materials to plan and enact instruction. North American Chapter of the International Group for the Psychology of Mathematics Education. Nov. 2019.

Bernard R. McCoy Broadcast Journalism

Presenter/speaker. Gen Z and digital distractions in the classroom: Student classroom use of digital devices for non-class related purposes. #BEAVirtualVegas, virtual convention, Broadcast Education Association. April 17-24, 2020.

Justin McMechan Entomology

Presenter/speaker, with T. Hunt, R. Wright et al. Soybean gall midge: Observations on an emerging pest of soybean. Entomological Society of America Annual Meeting. Nov. 20, 2019.

Kim Meiergerd Bureau of Sociological Research

Presenter/speaker, with Amanda Ganshert, Lindsey Witt-Swanson and Jolene Smyth. An experimental study on the effects of sponsor emphasis and incentive packaging on response. Midwest Association for Public Opinion Research. Nov. 22, 2019.

Presenter/speaker, with Amanda Ganshert, Lindsey Witt-Swanson and Jolene Smyth. An experimental study on the effects of sponsor emphasis and incentive packaging on response. American Association for Public Opinion Research. June 2020.

Deepika Menon Teaching, Learning and Teacher Education

Presenter/speaker, with Shaw, K., Overduin, J., and Lowing, T. Steam power as a teaching tool in introductory physics. American Physical Society April Virtual Meeting. April 2020.

Jake Messersmith Management

Presenter/speaker. Perceived HRM systems, well-being, and organizational performance: A two-wave longitudinal study. Academy of Management Annual Conference. Aug. 2019.

Claire Nicholas Textiles, Merchandising and Fashion Design

Presenter/speaker, with Mary Alice Casto, Katie Francisco, and Alyssa Smith. No place like home? Shifting design ideals for eldercare facilities. Fashion and Active Aging Symposium, College of Design, University of Minnesota. Sept. 26-28, 2019.

Elizabeth Niehaus

Educational Administration

Panel discussion participant, with Cole, E., Friedman, J., et al. The professor in polarized times: Challenges of free speech and inclusion on campus and in the classroom. Annual Meeting of the American Historical Association. Jan. 2020.

Glenn E. Nierman Glenn Korff School of Music

Presenter/speaker. Assessing beyond presenting a polished performance. National Association for Music Education National Inservice Conference. Nov. 9, 2019.

Keynote speaker. Music for a lifetime: Inquire. Inspire. Invest. Kansas-Consortium of Music Teacher Education Professors and Students Annual Conference, Kansas Music Educators Association. Sept. 29, 2019.

Presenter/speaker. Assessment in a revised standards environment: An introduction to NAfME's 2016 workbooks for building and evaluating effective music education. Kansas-Consortium of Music Teacher Education Professors and Students Annual Conference, Kansas Music Educators Association. Sept. 30, 2019.

Kendra L. Ordia Interior Design

Presenter/speaker. Spatial narrative in biophilic interior design. 2020 Interior Design Educators Council Annual Conference. March 4-7, 2020.

Hasan H. Otu Electrical and Computer Engineering

Presenter/speaker, with Vasunilashorn, S.M., Ngo, L.H., et al. An inflammatory signature of postoperative delirium. Gerontological Society of America Annual Scientific Meeting. Nov. 13-17, 2019.

Presenter/speaker, with Vasunilashorn, S.M., Ngo, L.H., et al. Inflammation as a potential shared mechanism for postoperative delirium and long-term cognitive decline in older adults undergoing major surgery. Alzheimer's Association International Conference. July 14-18, 2019.

Presenter/speaker, with Tripp, B.A., Dillon, S.T., et al. Metabolomics of delirium: A case-control study. Gerontological Society of America Annual Scientific Meeting. Nov. 13-17, 2019.

Morgan E. Palmer

Classics and Religious Studies/ Women's and Gender Studies

Presenter/speaker. The fictores on inscriptions from the Atrium Vestae. Third North American Congress of Greek and Latin Epigraphy, Jan. 6, 2020.

Presenter/speaker. Always advanced by her recommendations: The Vestal Virgins and women's mentoring. Society for Classical Studies Annual Meeting, Women's Classical Caucus Panel. Jan. 5, 2020.

Presenter/speaker. The Vestal Virgins and conflict resolution across genres: Livy and Valerius Maximus. Classics and Conflict Resolution in Ancient and Modern Contexts II: Theory and Genre, Arts and Humanities Research Council, King's College, London. July 1-3, 2019.

Daniel Piatkowski Community and Regional Planning

Presenter/speaker, with Justin McCully and Melissa Piatkowski. Towards a rural vision zero: A qualitative exploration of vulnerable road user fatalities in rural areas. Bridging Transport Researchers, Texas A&M. Aug. 11-12, 2019.

Keynote speaker. Acceptable losses? Understanding vulnerable road user (VRU) fatalities in rural Nebraska. Nebraska Bike/Walk Summit, Bike/Walk Nebraska. Oct. 17, 2019.

Presenter/speaker. Smart cities for the rest of us? Nebraska Department of Transportation's Future of Transportation Forum. Virtual, NDOT. June 25, 2020.

Presenter/speaker, with Justin McCully and Melissa Piatkowski. Acceptable losses? Specifying fault in bicycle and pedestrian traffic deaths. Active Living Research Conference. Feb. 2-5, 2020.

Presenter/speaker, with David Newton and Wesley Marshall. Bird's eye view of health outcomes: Using deep learning to estimate health measures from satellite images. Active Living Research Conference. Feb. 2-5, 2020.

Presenter/speaker. The "Family CAB": Addressing family chauffeur-associated-burdens (CABs). Annual Meeting of the Transportation Research Board. Jan. 12-16, 2020.

Presenter/speaker with Wesley Marshall. When driving is no longer an option: Perceptions and plans for coping with age-related driving cessation. Association of Collegiate Schools of Planning. Oct. 13-15, 2019

Zachary T. Porter Architecture

Presenter/speaker. Groundforms: Architectural constructions of ground (after the digital). Schools of Thought: Rethinking Architectural Pedagogy, University of Oklahoma. March 5-7, 2020.

Robert Powers Chemistry

Keynote speaker. Further developments in the application of metabolomics for drug discovery and disease diagnosis. Arizona State University-MAYO Metabolomics and Cardiac Regeneration Symposium. Feb. 28, 2020.

Presenter/speaker. A combined NMR and MS metabolomics approach to study neurodegenerative diseases. Great Plains Regional Annual Symposium on Protein and Biomolecular NMR. Nov. 22-23, 2019.

Presenter/speaker. A combined NMR and MS metabolomics approach to study neurodegenerative diseases. Chicago Area NMR Discussion Group. Nov. 2, 2019.

Laurence R. Rilett Civil and Environmental Engineering/ Nebraska Transportation Center

Keynote speaker. Sustainability, reliability, and resiliency in transportation engineering. Conférence Internationale de Géotechniques, Ouvrages et Structures. Oct. 31-Nov. 1, 2019.

Keynote speaker. Simulation-based reliability and resiliency metrics. Fifth International Conference on Transportation Information and Safety. July 14-17, 2019.

Paul Royster University Libraries

Presenter/speaker. IRs in America: Land of the free or free online access. International Association of Technological University Libraries Seminar. Dec. 10, 2019.

Blake Runnalls Marketing

Presenter/speaker, with Carissa Harris, Nikos Dimotakis and Pinar Kekec. How leader-member exchange (LMX) agreement impacts salesperson turnover. American Marketing Association Winter Marketing Educators' Conference. Feb. 22-24, 2020.

Presenter/speaker, with Ravi Agarwal, Nikos Dimotakis and Pinar Kekec. The effect of team intelligence configuration on role overload and salesperson turnover. American Marketing Association Winter Marketing Educators' Conference. Feb. 22-24, 2020.

Sajeesh Sajeesh Marketing

Presenter/speaker, with Ashutosh Singh and Pradeep Bhardwaj. Whitelisting versus sophisticated ad recovery: Effective strategies to overcome ad blocking. American Marketing Association Winter Marketing Educators' Conference. Feb. 22-24, 2020.

Loukia Sarroub Teaching, Learning and Teacher Education

Presenter/speaker. The telling case of middle and high school readers as spatial. Ethnographic and Qualitative Research Conference. Feb. 25, 2020.

Lawrence Scharmann Teaching, Learning and Teacher Education

Presenter/speaker. Evolution and nature of science: An account of changes in evolution instruction. National Science Teaching Association Annual Conference. April 5, 2020.

James C. Schnable

Agronomy and Horticulture/ Center for Plant Science Innovation

Presenter/speaker. Genes and gene-like sequences in maize, sorghum and arabidopsis. Plant and Animal Genome, Scherago. Jan. 11-15, 2020.

Presenter/speaker. Mapping recombination breakpoints in sorghum using highly multiplexed whole genome shotgun sequencing. Plant and Animal Genome, Scherago. Jan. 11-15, 2020.

Presenter/speaker. Climbing the phenotyper's pyramid. Guelph Plant Sciences Symposium, University of Guelph/Corteva. Nov. 20, 2020.

Panel discussion participant. The future of machine learning in agricultural systems. Machine Learning for Cyber-Agricultural Systems, USDA and Japanese Science and Technology Agency. Sept. 11-12, 2019.

Keynote speaker. Separating genes from gene-like sequences in maize and sorghum. Brewbaker Endowed Lecture, University of Hawaii. Oct. 11, 2019.

Susan M. Sheridan

Nebraska Center for Research on Children, Youth, Families and Schools/ Educational Psychology

Presenter/speaker, with Brown, K. E., Eastberg, S. A., Chen, D., Abrica, B., Wheeler, L. A., and Derr, K.I. Assessing Latinx parent-teacher relationships: Considering language and school content. Annual Convention of the National Association of School Psychologists. Feb. 18-21, 2020.

Presenter/speaker, with Gomes, R.T.M., and Smith, T.E. Promoting social-emotional functioning through conjoint behavioral consultation. Annual Convention of the National Association of School Psychologists, National Association of School Psychologists. Feb. 18-21, 2020.

Presenter/speaker, with Kerby, H. M., Schumacher, R. E., Choi, D., Koziol, N. A., Witte, A. L., Prokasky, A. et al. Student-teacher relationships and classroom quality: Implications for children of color. Annual Convention of the National Association of School Psychologists. Feb. 18-21, 2020.

Presenter/speaker, with Derr, K.I., and McClure, D. Promoting student success through parent-teacher collaboration. Annual Conference of the Colorado Association of School Boards. Dec. 3-6, 2019.

Presenter/speaker, with Harbourne, R.T., Koziol, N.A., Bovaird, J.A. et al. Efficacy of the START-Play Program for Infants with Neuromotor Disorders: Cognitive outcomes. Annual Meeting of the American Academy for Cerebral Palsy and Developmental Medicine and International Alliance of Academies of Childhood Disability. Sept. 18-21, 2019.

Presenter/speaker, with Bass, H.P., Gomes, R., Racine, B., Bovaird, J.A., and Gormley, M.J. Conjoint behavioral consultation: Who benefits most? Annual Convention of American Psychological Association. Aug. 8-11, 2019.

Presenter/speaker, with Brown, K.E., Eastberg, S.R.A., and Smith, T.E. Family-school interventions and ELL students: A meta-analysis of literacy outcomes. Annual Convention of American Psychological Association. Aug. 8-11, 2019.

Presenter/speaker, with Kerby, H.M., Schumacher, R.E., Koziol, N., Racine, B.C., Overfield, R.A., and Spradlin, C.A. Neighborhood characteristics and geographic contexts: Impacts on children's social-emotional skills. Annual Convention of American Psychological Association. Aug. 8-11, 2019.

Sunil Singh Marketing

Presenter/speaker, with Blake Runnalls, Mohsen Pourmasoudi and Bitty Balducci. Emerging trends in sales and service. Organizational Frontline Research Symposium. Feb. 13-14, 2020.

Jolene D. Smyth Sociology

Presenter/speaker, with Kristen Olson. Do interviewers accurately field code answers? An experiment on the effect of number of response categories. Midwest Association for Public Opinion Research Conference. Nov. 22-23. 2019.

Presenter/speaker, with Kristen Olson. Do interviewers accurately code answers for field code items? An experiment on the effect of number of response categories. European Survey Research Association Conference. July 15-19, 2019.

Ravipreet Sohi Marketing

Presenter/speaker, with Ravi Agarwal. Building customer relationships: Why does the most recent history matter in B2B exchange relations? American Marketing Association Winter Marketing Educators' Conference. Feb. 22-24, 2020.

Presenter/speaker, with Shilpa Somraj. Using salesforce intelligence to extract social media intelligence. American Marketing Association Winter Marketing Educators' Conference. Feb. 22-24, 2020.

Hyun-Seob Song

Biological Systems Engineering/ Food Science and Technology

Presenter/speaker. Multiomics-based metabolic network reconstruction and pathway analysis for predictive biogeochemical modeling. Metabolic Pathway Analysis 2019, European Union. Aug. 12-16, 2019.

Presenter/speaker. Substrate-explicit modeling. SFA Community Watershed Workshop, Pacific Northwest National Laboratory. Sept. 11-12, 2019.

Presenter/speaker. Modeling of environment-dependent microbial interactions and dynamics. American Institute of Chemical Engineers Annual Meeting. Nov. 10-15, 2019.

Presenter/speaker. Multiomics integration for substrate-explicit biogeochemical modeling and more. American Geophysical Union Fall Meeting. Dec. 9-13, 2019.

Presenter/speaker. The regulation of microbial nitrogen-transforming pathways: An enzyme-explicit modeling approach. American Geophysical Union Fall Meeting. Dec. 9-13, 2019.

Erkut Sonmez Supply Chain Management and Analytics

Presenter/speaker. Dynamic irrigation management under temporal and spatial variability. INFORMS Annual Meeting. Oct. 20-23, 2019.

Julie Thomas Teaching, Learning and Teacher Education

Presenter/speaker, with J. Thomas, T. Mittlestet and E. Ingram. Exploring BBC micro:bits as a tool for improving elementary preservice teacher STEM preparation and science teaching self-efficacy. Annual Conference of the Association for Science Teacher Education. Jan. 9-11, 2020.

Varkey K. Titus Management

Presenter/speaker, with Owen Parker and Cole Short. Your horses: Negative anticipatory impression management, and when and why managers engage in it. Strategic Management Society Conference. Oct. 19-22, 2019.

Susan VanderPlas Statistics

Presenter/speaker. Big data, big experiments, and big problems. Plant and Animal Genome. Jan. 2020.

Presenter/speaker. One of these things is not like the others: Visual statistics and testing in statistical graphics. Data Science Symposium, South Dakota State University. Feb. 2020.

Lily M. Wang

Durham School of Architectural Engineering & Construction

Presenter/speaker, with Kieren H. Smith. Acoustic conditions in occupied classrooms. 26th International Congress on Sound and Vibration, International Institute of Acoustics and Vibration. July 7-11, 2019

Presenter/speaker, with Kieren H. Smith. Exploring the effect of ventilation type on the acoustics of primary and secondary school classrooms. International Congress on Acoustics 2019, International Commission for Acoustics. Sept. 9-13, 2019.

Presenter/speaker, with Kieren H. Smith and Victoria R. Anderson. Design features and room characteristics contributing to noise levels in restaurants. International Symposium on Room Acoustics 2019, International Commission for Acoustics. Sept. 15-17, 2019.

Presenter/speaker, with Jared Paine and Joshua Palakapilly. Variations in restaurant soundscapes. 178th Meeting of the Acoustical Society of America. Dec. 2-7, 2019.

Yujia Wang

Landscape Architecture

Keynote speaker. Hybrid pedagogy: Transfer of knowledge to teach landscape vision planning and design in studio. Environmental Design Research Association Conference EDRA 51. April 4-7, 2020.

Lorey A. Wheeler

Nebraska Center for Research on Children, Youth, Families and Schools

Presenter/speaker, with Fabianne Gondim, Donna Chen, Cindy Miller and Martin Reisslein. Latina/o parents' role in youth's STEM identity, self-efficacy, and adjustment. Annual Meeting of the National Council on Family Relations. Nov. 20-23, 2019.

Cynthia Willis-Esqueda Psychology/Institute for Ethnic Studies

Presenter/speaker, with Gilbert, K. The taint of criminality for exonerees and their children. American Psychology-Law Society Meeting. March 6, 2020.

Amanda L. Witte

Nebraska Center for Research on Children, Youth, Families and Schools

Presenter/speaker, with Kristen Derr and Susan M. Sheridan. Better behavior through family engagement: Tailoring behavior interventions for individual students and families. Nebraska MTSS Summit, Nebraska Department of Education. Sept. 2019.

Presenter/speaker, with Kristen Derr and Susan M. Sheridan. Teachers and parents as partners: Partnering for the future. Family-School-Community Alliance Annual Meeting. Sept. 2019.

Biyu Wu Accountancy

Presenter/speaker, with Xiaotao Kelvin Liu. Do IPO firms misclassify expenses? Implications for IPO price formation and post-IPO stock performance. American Accounting Association Annual Meeting. Aug. 9-14, 2019.

Shi-Hua Xiang Veterinary Medicine and Biomedical Sciences/ Nebraska Center for Virology

Presenter/speaker, with Leslie Estrada, Joshua Wiggins and Leah Liu Wang. Structure based design of peptide inhibitors targeting Ebola endosomal receptor NPC1 binding site. ASV Filoviruses I & II, American Society for Virology. June 18, 2020.

Liang Xu Supply Chain Management and Analytics

Presenter/speaker, with Hongmin Li and Hui Zhao. Outcome-based reimbursement: The solution to high drug spending? INFORMS Annual Conference. Oct. 20-23, 2019.

Presenter/speaker, with Hui Zhao. How does medication-assist treatment help in combating the opioid epidemic? INFORMS Annual Conference. Oct. 20-23, 2019.

Yiqi Yang Textiles, Merchandising and Fashion Design

Keynote speaker, with B.N. Mu, F. Hassan and L. Xu. Pure keratin fibers from poultry feathers. Ninth International Conference on Advanced Fibers and Polymer Materials. Nov. 19-23, 2019.

Presenter/speaker, with B.N. Mu and F. Hassan. Continuous wet spun keratin fibers from chicken feathers. Fourth International Symposium on Materials from Renewables. Oct. 9-10, 2019.

Presenter/speaker, with B.N. Mu, L.Y. Liu and W. Li. An environmentally responsible dyeing technology. 2019 International Conference on Eco-Textiles. Aug. 4-6, 2019.

HyeonJin Yoon

Nebraska Center for Research on Children, Youth, Families and Schools/ Nebraska Academy for Methodology, Analytics and Psychometrics

Presenter/speaker, with Keith Zvoch, Keith Smolkowski and Ben Clarke. Evaluation of the validity and precision of the multiple-cutoff regression discontinuity designs: A within-study comparison. Annual Meeting of American Educational Research Association. April 17-21, 2020.

Panel discussion participant, with Chris Ives and Gina Biancarosa. Identifying first grade reading profiles with latent profile analysis. Annual Convention of the National Association of School Psychologists. Feb. 18-21, 2020.

David P. Yuill

Durham School of Architectural Engineering & Construction

Presenter/speaker. The surprising effects of outdoor coil fouling on heat transfer and frost formation rate. American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) Winter Conference. Feb. 1-5, 2020.

Presenter/speaker. A method for simulating real air side fouling based on field sample analysis. ASHRAE Winter Conference. Feb. 1-5, 2020.

Janos Zempleni

Nutrition and Health Sciences

Presenter/speaker, with M. Sadri and F. Zhou. Knockout of maternal Tsg101 and Dicer impair gut health in suckling wild-type pups. American Society for Exosomes and Microvesicles (ASEMV) Annual Meeting. Oct. 6-10, 2019.

Poster presenter, with M. Sadri and F. Zhou. Knockout of maternal Tsg101 and Dicer impair gut health in suckling wild-type pups (poster). ASEMV Annual Meeting. Oct. 6-10, 2019.

Keynote speaker. Milk exosomes. Seventh International Conference on Food Factors. Dec. 1-5, 2019.

Keynote speaker. Concluding remarks for session on exosomes and microRNA. Seventh International Conference on Food Factors. Dec. 1-5. 2019.

Invited speaker. Biological activities of milk exosomes and their RNA cargos within and across species boundaries. Laureate Institute for Brain Research. Jan. 22, 2020.

Ruizhi Zhang Statistics

Presenter/speaker. A game-theoretic approach to sequential detection in adversarial environments. IEEE International Symposium on Information Theory. June 2020.

Invited speaker. Adaptive online monitoring of the Ising model. 57th Annual Allerton Conference. Sept. 2019.

Yuzhen Zhou Statistics

Invited speaker. Tail asymptotics for the extremes of bivariate Gaussian random fields. Analysis and Data Science Seminar, University of Albany. Oct. 7, 2019.

Mentorship: UCARE and FYRE Programs

The Undergraduate Creative Activities and Research Experience program and the First Year Research Experience program enable Husker undergraduate students to work one-on-one with a faculty member on a research or creative project in the mentor's field of scholarship. The following faculty members mentored students – whose names, majors and project titles are also listed – during the summer of 2019 and/or the 2019-2020 academic year. Compiled by the Office of Undergraduate Research and the Office of Graduate Studies

Peter Angeletti Biological Sciences

Patience Gihozo, integrated science. Characterization of Ocular Surface Squamous Neoplasia (OSSN) Among HIV+ and HIV-Zambians

Salan Preet Kaur, biological sciences. Does HIV Promote HPV-Related Eye Tumors?

Effie Athanassopoulos

Anthropology/ Classics and Religious Studies

Alexander Kuehler, anthropology/classics and religious studies. The Origins and History of the Perry-Campbell Coin Collection

William Roe, anthropology. The Perry-Campbell Coin Collection at the Nebraska State Museum: Documenting the Coin Collection

Audrey Atkin

Biological Sciences

Anna Barent, biological sciences. Use of pmirGLO to Detect Bovine miRNA Effects on Human Gene Expression

Jennifer Auchtung

Food Science and Technology

Keegan Schuchart, biochemistry. Effects of Microbiota Accessible Carbohydrates on *Clostridioides difficile* Infection

Raul Barletta Veterinary Medicine and Biomedical Sciences

Tim Kaftan, biological sciences. Targeting the Biosynthesis of Mycobacterial Peptidoglycan Precursors in Search of Novel Targets for Drug Development and Vaccines

Greg Bashford

Biological Systems Engineering

Juliana Rodriguez, biological systems engineering. Artificial Emboli Verification and Discrimination in Cerebral Circulation: Increasing Sensitivity and Specificity of Embolic Detection Via Transcranial Doppler Ultrasound Donald Becker Biochemistry

Trinh Huong, biochemistry. Impact of Substrate Channeling in Proline Metabolism on Cell Growth

David Berkowitz Chemistry

Jonathan Askey, French. Synthesis of Chiral Phosphonates (Phosphate Mimics) Through Enzymatic Dynamic Reductive Kinetic Resolution

Nate Bicak Architecture

Annie Mimick, architecture. Material Assemblies Research and Prototyping for Interior Design + Build

Paul Blum Biological Sciences/Biological Systems Engineering

Stephan Sutter, biological systems engineering/biochemistry.
Developing Targeted ChIP Methods in *Sulfolobus solfataricus* to Identify Proteins Involved in Epigenetically Controlled Expression

Justin Bradley

Computer Science and Engineering/ Mechanical & Materials Engineering

David Besonen, computer science. The Harmonizer Project: A Commercially Available Evolution in Music Creation

Liam Kruse, mechanical engineering. Towards the Development of On-the-Fly Markov Decision Process Updating

Eve Brank Psychology

Kaitlyn Wilson, psychology. The Effects of Social Support on Consent to Search Decisions

Chad Brassil Biological Sciences

Miranda Martin, biological sciences. The Influence of Temperature and Density on the Induction of Winged Aphids

Anita Breckbill Glenn Korff School of Music

James Heisner, anthropology/women's and gender studies. Lincoln's Culture: Preservation of Classical Music Printed Programs

Rebecca Brock Psychology

Olivia Maras, psychology. Influence of Parental Eating Pathology on Child Obesity Risk at Two Years of Age/Role of Parental Eating Pathology on Child Outcomes and Parenting Practices

David Cahan History

Hannah Oh, graphic design/computer engineering/mathematics. The Nobel Prizes in the Natural Sciences as Proxy for National Scientific Strength: A Databased Approach

Matthew Carlson Center on Children, Families and the Law

Chelsey Wisehart, psychology/communication studies. Case Closure Among the Lancaster County's Family Treatment Drug Court: The Role of Personal Relationships and Service Engagement

Nutrition and Health Sciences Weiwen Chai

Carly Selleck, nutritional science/dietetics. Diet Quality and Race-Ethnic Disparities in Prediabetes and Type 2 Diabetes

Barry Cheung Chemistry

Ema Shaker, chemistry. Analyzing the Uptake of Minerals by Microgreens of Brassicaceae

Psychology Kathy Chiou

Megan Jones, psychology. Comparing Positive and Negative Emotion Recognition in Individuals After Traumatic Brain Injury

Computer Science and Engineering Berthe Choueiry

Tomo Bessho, mathematics/computer science. Controlling Search Algorithms Via Visualizations

Denis Komissarov, software engineering. Studying Different Algorithms for Generating All Connected Subgraphs with k Vertices

Khang Phan, computer science. Studying Different Algorithms for Generating All Connected Subgraph with k Vertices

Zachary Scott, electrical and computer engineering. Cross-Fertilization of SAT and CP Solvers

Serigne Toure, computer engineering. Cross-Fertilization of SAT and **CP Solvers**

Alan Christensen **Biological Sciences**

Nathan Andrews, microbiology. Where Does all the Junk DNA in Plant Mitochondria Come From?

David Campbell, biochemistry. A Search for Genes Required for DNA Repair in Plant Mitochondria

Jaqueline Korth, biological sciences. Inducing Mutations in Mitochondria and Chloroplast DNA

Nutrition and Health Sciences Soonkvu Chuna

Darius Fox, nutritional sciences and dietetics. Urolithin A, a Gut Metabolite, and Its Effects on an in vitro Parkinson's Disease Model

Duncan Works, biochemistry. The Effects of Urolithin A, a Gut Metabolite, on the Brain NLRP3 Inflammasome

Sona Ci **Electrical and Computer Engineering**

Andrew Butler, electrical engineering. Study of Battery Energy Consumption Behaviors of Cybersecurity Software of Embedded Computing Systems

Justina Clark **Undergraduate Education and Student Success**

Ryan Pawloski, sports media and communication/broadcasting. Impact of Campus Research

Matt Cohen English

Bianca Swift, English. Cross-Examining the Works and Letters of Charles Chesnutt

Steven Comfort Natural Resources/Agronomy and Horticulture

Amy Yanagida, sociology/environmental restoration science. Using Electrocoagulation and Electrochemically Activated Persulfate to Remove Per- and Polyfluoroalkyl Substances (PFAS) from Contaminated Water

Jessica Corman Natural Resources

Matthew Chen, environmental restoration sciences. Investigation of Nutrient Imbalances in the Niobrara River

Sydney Kimnach, fisheries and wildlife/pre-veterinary medicine. Effects and Implications of Nutrient Pollution on Algae Growth in the Niobrara River

Precious Nyabami, integrated science. Using Dissolved Oxygen to Predict Holmes Lake's Phytoplankton Community's Ability to Process Annual Nutrient Loads

Collin Podany, chemical engineering. Testing the Removal of Nutrients in Streams with Nebraska Buffers

Kayla Vondracek, environmental studies. Human Influence on the Biodiversity of Algae in the Niobrara River

Brian Couch **Biological Sciences**

Emily Bremers, microbiology. Validating an Assessment Instrument That Measures Students' Science Proficiencies

Nutrition and Health Sciences Inel Cramer

Nicholas Bohannon, nutritional sciences and dietetics. Effects of Eccentric Loading on Vertical Jump Performance in Youth Female Athletes

Sydney Gibson, nutritional sciences and dietetics. Blood Hemoglobin Concentrations and Tissue Oxygenation Relationships During Rest, Exercise and Recovery

Clay Cressler Biological Sciences

Freddy Gonzalez, microbiology. Isolating Novel Species Within the Microbiota of *Daphnia magna* to Understand Host-Microbe Interactions

Joseph Levey, biological sciences. Evolutionary and Ecological Determinism of Host Specificity in Arthropod Parasites

Bai Cui Mechanical & Materials Engineering

Kevin Zhao, mechanical engineering. Understanding the Mechanisms of the Pulsed Electric Current Process for Joining High-temperature Alloys

Nathan Snyder, mechanical engineering. Development of Novel Welding Process for High-Temperature Alloys

Juan Cui Computer Science and Engineering/Biological Sciences

Christian Dukunde, integrated science. Informatics-Guided Approach to Study miRNA Sorting Through Motif Finding

Jeffrey Day Architecture

Andrew Goldsmith, architectural studies. FACT_Book

Erica DeFrain University Libraries

Tiffany Schweer, architectural studies. A Comparative Case Study of Four Informal Learning Spaces on Campus

John DeLong Biological Sciences

Fiona Shogren, biological sciences. Predation Risk and Its Effect on Foraging Behavior in Slender Crab Spiders (*Tibellus oblongus*)

Sarah Deyong Architecture

Logan Altrichter, architectural studies. Teaching Pedagogy on Integrated Design in Architecture

Paige Haskett, architectural studies. Teaching Pedagogy on Integrated Design in Architecture

Angela Dietsch Special Education and Communication Disorders

Katrina German, communication sciences and disorders. The Cooccurrence of Dysphagia and Dysphonia Following Orotracheal Intubation

Madison Felix, Special Education and Communication Disorders. Retrospective Analysis of Respiratory Exercise and Swallowing Recovery

Shudipto Dishari Chemical and Biomolecular Engineering

Jackson Goddard, chemical engineering/mathematics. Effect of lonomer Chemical Structure and Nature of Substrate on Morphology of lonomer Thin Films

Isabelle Koehler, chemical engineering. Nanoscale Interrogation of Supported Ionomer Catalyst Layers for Hydrogen Fuel Cells

Michael Dodd Psychology

Payton Geschke, psychology/biological sciences. Eye Movements, Task-Switching, and Schizotypy

Logan Miller, psychology. An Examination of Pop-Out in Dynamic Visual Search

Eddie Dominguez Art, Art History and Design

Tea Ilic, graphic design. When Endangered Animals Become Extinct

Ellen Donnelly Architecture

Majdi Alkarute, architectural studies. Architectural Exhibitions: The Disciplinary Edge

Seyedeh Golsa Motevalli, architectural studies. Cultural Producers or Products of Culture: Subverting the Image Through Instagram

Paige Haskett, architectural studies. Cultural Producers or Products of Culture: Subverting the Image Through Instagram

Matthew Douglass Agricultural Sciences and Natural Resources

Connor McFayden, environmental studies. Changes in Land Use Along Kenya's Lake Turkana

Huijing Du Mathematics

Shannyn Bird, biochemistry and mathematics. Multi-population Compartment Models and Stochasticity Analysis for Cancer Stem Cells Proliferation and Differentiation

Mary Ellen Ducey University Libraries

Jake Borgmann, history/ethnic studies. Archiving Nebraska Native American History

Sam Guido, history. LGBTQA+ History at the University of Nebraska-Lincoln

Aaron Duncan Communication Studies/Speech and Debate Program

Jordan Wong, economics/political science. An Empirical Analysis of Competitive Speech and Debate

Bruce Dvorak

Civil and Environmental Engineering/ Mechanical & Materials Engineering

Kimberly Law, chemical engineering. Evaluating the Embedded Environmental Impacts of the Sanitary System Using Life Cycle Assessment

Yuris Dzenis

Mechanical & Materials Engineering

Abdelrahman Elsayed, mechanical engineering. Control of Electrospinning Jet Instabilities: In Pursuit of Perfect Continuous Nanofiber Alignment

lakov Golman, mechanical engineering. Size Effects in Mechanical Properties of Advanced Continuous Nanofibers and Nanocomposites

Ece Erdogmus Skourup

Durham School of Architectural Engineering & Construction

Ethan Hall, civil engineering. Discrete Element Modeling of Compressed Stabilized Earth Blocks

Sydney Everhart

Plant Pathology

Cristian Wulkop Gil, biochemistry. Fungicide Sensitivity of *Sclerotinia* sclerotiorum Isolates Selected from Five Different States That Use Different Fungicide Treatments

Lucia Fernandez Ballaster

Mechanical & Materials Engineering

Tucker Loosbrock, mechanical engineering. Conductivity of Poly(3-hexylthiophene) Resulting from Formation Conditions

Samodha Fernando

Animal Science/Biological Sciences

Audra Hessenflow, microbiology. A New Method for Treating Liver Abscesses by Identifying and Isolating Naturally Occurring Bacteriophages Against *F. necrophorum* Species from the Rumen of Cattle

Dennis Ferraro

Natural Resources

Abigail Horner, veterinary science. Effect of Calcium Supplements on the Eyesight of Western Tiger Salamanders

Luke Micek, fisheries and wildlife. Determining How Nicotine from Cigarettes Affects Plains Leopard Frog Tadpole Development

Lexy Polivanov, biological sciences/fisheries and wildlife/environmental studies. The Effects of Monoammonium Phosphate Fertilizer on Western Barred Tiger Salamander Larvae (Ambystoma mavortium)

Irina Filina

Earth and Atmospheric Sciences

Erik Jacobson, geology. Mapping a Recently Reactivated Fault System in Central Nebraska with a Drone-Based Magnetic Surveying System

Jenna Finch Psychology

Amyia Harris, psychology. Parental Support of Persistence and Challenge Preference During the Transition to Third Grade

Rachelle Johnson, psychology. Motivation in Third Grade Students with Learning Disabilities

Mikil Foss Mathematics

Stephen Yaghmour, chemical engineering. Theoretical and Numerical Investigations for Solutions to Nonlocal Systems with Applications in Peridynamics

Trenton Franz

Natural Resources

Thierry Bienvenu, integrated science. Using Hydro-Geophysics and XRF to Produce a High Resolution 3-Dimensional Soil Cadmium Map for Evaluating Hybrid Wheat Trials

Julie Frengs

Modern Languages and Literatures

Peyton Reynolds, French. Translating Culture: An International Colloquium on the Earth in French and French-Speaking Communities

Hernan Garcia-Ruiz

Plant Pathology

Benjamin Downing, microbiology. Epitope Tagging Core Components of Gene Silencing by Gene Editing/Mutational Inactivation of *A. thaliana* RNA-Dependent RNA Polymerases by Gene Editing

Rebecca Leuschen, biochemistry. Epitope Tagging Core Components of Gene Silencing by Gene Editing/Mutational Inactivation of *A. thaliana* RNA-Dependent RNA Polymerases by Gene Editing

Rachel Stein, microbiology. Epitope Tagging Core Components of Gene Silencing by Gene Editing/Mutational Inactivation of *A. thaliana* RNA-Dependent RNA Polymerases by Gene Editing

Amanda Garrett

Educational Psychology

Rose Wehrman, English. Typology of Gaps in the Education System

Sarah Gervais

Psychology/Public Policy Center

Kyle Bizal, psychology. Predictors of Bystander Intervention to Reduce Sexual Assault

Taylor Brumbaugh, psychology. Predictors of Bystander Intervention to Reduce Sexual Assault

Haley Hansmeier, psychology. Predictors of Bystander Intervention to Reduce Sexual Assault

George Gogos

Mechanical & Materials Engineering

Maureen Winter, mechanical engineering. Quantifying Wicking in Functionalized Surfaces

Ryan Regan, mechanical engineering. Micro-Droplet Production Using Femtosecond Laser Surface Processing

Frank Golf Physics and Astronomy

Mitchell Lange, computer engineering. Analyzing Muons and Other Particles from the Large Hadron Collider

Carter Walford, physics and mathematics. Development of Methods to Reject Cosmic Ray Muons as a Background to Searches for Fractionally Charged Particles at the Large Hadron Collider

Marc Goodrich Special Education and Communication Disorders

Joelly Anderson, communication sciences and disorders. Exploring the Relations Between Executive Function, Self-Efficacy and Reading Skills

Margarita Quintana, Spanish. Early Language and Literacy Skills of Spanish-Speaking Dual Language Learners

Alejandro Rodriguez, psychology. Early Language and Literacy Skills of Spanish-Speaking Dual Language Learners

Charlee Sindelar, elementary education. Influences of Executive Function on Self-Efficacy for Reading

Richard Graham University Libraries

Julien Hoffman, English/women's and gender studies. Illustrations of Femininity, Power and Magic: A Study of the Representations of Women and Girls as Witches in Comics Throughout History

Jiantao Guo Chemistry

Alexander Meyer, biochemistry. UNL International Genetically Engineered Machines (iGEM) Team

Roxanne Mpinganzima, integrated science. UNL International Genetically Engineered Machines (iGEM) Team

Dave Hall Glenn Korff School of Music

Christopher Goulet, music. An In-Depth Analysis of Peter Klatzow's Dances of Earth and Fire

David Hansen Psychology/Public Policy Center

Erika Boohar, psychology/Spanish. Mental Health Treatment for Sexually Abused Youth and Their Non-Offending Family Members: Evaluation of Project SAFE Services Chelsey Wisehart, psychology/communication studies. Mental Health Treatment for Sexually Abused Youth and Their Non-Offending Family Members: Evaluation of Project SAFE Services

Edward Harris Biochemistry

Connor Clanton, biochemistry/agricultural education. Biophysical Characterization of Stabilin-2

Patrick Forbes, biochemistry. Biophysical Characterization of Stabilin-2

Amanda Lewis, biochemistry. Biophysical Characterization of Stabilin-2

Mohammad Hasan

Computer Science and Engineering

Mohamed Aly, computer science. Software Application for Improving Performance in Large Undergraduate Classes

Vy Doan, computer science/philosophy. Algorithm for Social Good: A Solution for False and Misleading News on Social Media

Lindsay Hastings

Agricultural Leadership, Education and Communication

Kaylee Robinson, psychology. Exploring Generativity Development Among Collegiate Student Leaders Who Mentor

Addison Sellon, psychology. Exploring Generativity Development Among Collegiate Student Leaders Who Mentor

Kyle Haws Psychology

Bailey Lytle, psychology. Moral Foundations Among UNL College Students and the Influence of Bystander Intervention Behaviors

Michael Hebert Special Education and Communication Disorders

Rachel Brush, elementary education. Examining Students' Writing Skills in the Context of Executive Function and Self-Efficacy

Wesley Deuel, speech-language pathology. Examining Students' Writing Skills in the Context of Executive Function and Self-Efficacy

Brittany Ringler, elementary education. Examining Students' Writing Skills in the Context of Executive Function and Self-Efficacy

Eileen Hebets

Biological Sciences

Earl Agpawa, insect science. Exploring the Role of the Putative Antipredator Defenses in the Orb-Weaving Spider *Micrathena gracilis*

Nicholas Morgan, biological sciences. Investigating the Connection Between Sexual Cannibalism and Offspring Quality in the Dark Fishing Spider *Dolomedes tenebrosus*

Gary Hein Entomology/Agronomy and Horticulture

Pierce Leef, secondary education, science (7-12). Determining How Wheat Streak Mosaic Virus Spreads in Resistant and Susceptible Corn Varieties

Joshua Herr Plant Pathology

Seth Blakestad, microbiology. Degradation of Relic DNA in Soil

Courtney Hillebrecht Political Science/ Human Rights and Humanitarian Affairs

Cole Kovarik, global studies/Spanish/political science. A Comparative Case-Study Analysis: Backlash to the European Court of Human Rights

Emma Zoller, journalism/political science. Mapping Human Right Violation from Fast Data

Mark Hinchman Architecture

Caroline Goertz, architectural studies. Dale and Patricia Keller: Overlooked Designers of the 20th Century

Kathryn Holland Psychology/Women's and Gender Studies

Sage Volk, psychology. An Investigation and Development of a Comprehensive Self-Report Questionnaire of Gender Identity

Miyoung Hong Architecture

Ashlynn Engelhard, interior design. A Comparative Case Study of Four Informal Learning Spaces on Campus

Annie Mimick, interior design. A Comparative Case Study of Four Informal Learning Spaces on Campus

Terry Housh Nutrition and Health Sciences

Kipp Hergenrader, nutritional sciences and dietetics. Effects of Cross-Sectional Area on Performance Fatiguability in Both Men and Women

Robert Hutkins Food Science and Technology/Biological Sciences

Chloe Christensen, food science and technology. Do Lactic Acid Bacteria in Fermented Foods Persist in the Gastrointestinal Tract? An *in vitro* Investigation

Chervl Immethun Chemical and Biomolecular Engineering

Cameron Gilley, chemical engineering. Inducing Increased Bioplastic Production in *R. palustris* CGA009

Dylan Hoppner, chemical engineering. Inducing Increased Bioplastic Production in *R. palustris* CGA009

Katrina Jagodinsky History

Zoe Battaglia, history/anthropology. Habeas Corpus and Legal Histories of the North American West

Cole Dunning-Ward, political science. Habeas Corpus and Legal Histories of the North American West

Ashley Morrison, history/Great Plains Studies Program/women's and gender studies. Habeas Corpus and Legal Histories of the North American West

Uchechukwu Jarrett Economics

Youngju Cho, management. Effect Analysis of Cryptocurrency Influences on International Trade

Tom Volkmer, economics/finance. The Effect of Mobile Payments in Developing Economies

Andrew Jewell University Libraries/English

Simone Droge, English. The Complete Letters of Willa Cather

Gayle Rocz, dance/English. The Complete Letters of Willa Cather

Matthew Johnson Psychology

Mei Grace Behrendt, psychology. Decoding the Contents of Visual Working Memory During Rehearsal Using EEG and Multivariate Pattern Analysis

Jeannette Jones History/Ethnic Studies

Chelsea Akyeampong, global studies/political science. To Enter Africa from America: U.S. Empire, Race, and the African Question, 1847-1919

Unyoh Mbilain, political science. To Enter Africa from America: U.S. Empire, Race, and the African Question, 1847-1919

C'yera Sherrod, child, youth and family studies. To Enter Africa from America: U.S. Empire, Race, and the African Question, 1847-1919

Michael Kaiser Agronomy and Horticulture

Ryley Thomas, environmental studies/agronomy. Effects of Biochar and Coffee Grounds on Lead Uptake in Lettuce Plants from Contaminated Urban Soil

David Karle Architecture

Morgan Davis, architectural studies. Design for Decline

Olena Yarmolyuk, architectural studies. Design for Decline

Sarah Karle Architecture

Margaret Gies, architectural studies. Nebraska Shelterbelt Archive

Jessica Schafer, landscape architecture. Nebraska Shelterbelt Archive

Meagan Willoughby, architectural studies. Nebraska Shelterbelt Archive

Oleh Khalimonchuk Biochemistry

Drew Harrahill, biochemistry. Analysis of ALS-Associated Mutation in the Mitochondrial Metalloprotease Oma1 in Yeast Genetic Model

Jooeun Song, biochemistry. The Role of Mitochondrial Inner Membrane Morphology on Heme Biosynthesis and Transport

Srivatsan Kidambi Chemical and Biomolecular Engineering

Noha Algahimi, chemical engineering. Biomimetic Brain Modeling for the Study of Neuron-Astrocyte Communication

Paurnima Ghotikar, chemical engineering. Analysis of GBM Cell and Astrocyte Interactions Through the Glycolytic Pathway

Samantha Harvat, chemical engineering. Polymer-Based Patterned Co-Cultures of Breast Cancer and Stromal Cells Mimicking Tumor Microenvironment

Philamon Hemstreet, biochemistry/biological systems engineering. Engineering Lipid Nanoparticles for Targeted Delivery for Vitamin E to Treat Inflammation in Arterial Tissues

Roarick Schollmeyer, biochemistry/microbiology/biological sciences. Engineering Lipid Nanoparticles for Targeted Delivery for Vitamin E to Treat Inflammation in Arterial Tissues

Trenton Tulloss, chemical engineering. Effects of Hepatocyte Proliferation of Patterned Co-Culturing with Stellate Cells and Macrophages

Forrest Kievit Biological Systems Engineering

Brandon McDonald, biological systems engineering. Kinetics of Reactive Oxygen Species Generation After Traumatic Brain Injury/ Nanoparticle Treatment to Counter Reactive Oxygen Species After Traumatic Brain Injury

Megan Otte, biological systems engineering. Optimizing PLGA Nanoparticles and Drug Combinations to Induce Synthetic Lethality in Pediatric Brain Cancer

Megan Ruckman, biological systems engineering. Optimizing PLGA Nanoparticles and Drug Combinations to Induce Synthetic Lethality in Pediatric Brain Cells

Yong-Rak Kim Civil and Environmental Engineering

Murtaza Nalwala, civil engineering. Testing and Modelling of Polymeric Materials for Resilient Infrastructures

Lisa Knoche Nebraska Center for Research on Children, Youth, Families and Schools

Evelyn Estrada-Gonzalez, psychology. Parent Language Use and Parent/Educator Relationships in Early Childhood Development

Brenna Schulte, speech-language pathology. Parent Behaviors: Supporting Language Development for Infants/Toddlers

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Durham School of Architectural Engineering & Construction

Aaron Adams, architectural engineering. An Investigation of the Operational and Design Characteristics of Circadian Lighting Systems

Lisa Kort-Butler Sociology

Vanessa Woosley, sociology. Stress, Media Consumption and Depression in College Students

Ilya Kravchenko Physics and Astronomy

Jesse Osborn, physics/mathematics. Measurements of Radio Pulse Reception with Stations of the ARA Experiment Based on the SpiceCore Pulser Data Set/Discrimination Between Neutrino Signal and Noise in the ARA Experiment Using Multivariate Data Analysis

Karen Kunc Art, Art History and Design

Alyssa Kobza, art. Investigating the Sociological Imagination Through Lithography

Rebecca Lai Chemistry

Katharina Dvorak, biochemistry. Development of a Salivary Glucose Biosensor for Diabetes Management

Adam Larios Mathematics

Luke Galvan, mathematics/physics. A Computational Investigation of a Continuum Model for Flocking Dynamics

James Le Sueur History

John Grinvalds, journalism. A History of Anticolonial Struggle in Nebraska: Nebraskan History in Local and Regional Archives

Glenn Ledder Mathematics

Marc Wade, mathematics. Predator Survival in a Two Patch System

Kevin Lee

Physics and Astronomy/Center for Science, Mathematics and Computer Education

Brandon Harper, physics. Creation and Study of Astronomy Ranking Tasks

Devi Seshadri, graphic design. Introductory Astronomy Graphics Directory

Jaekwon Lee Biochemistry

Jacob Stewart, biochemistry. Copper-Dependent Activation of Cell Proliferation Signaling Pathways

Ming Li Psychology

Barbara Bueno, psychology/biological sciences. Behavioral and Neurobiological Models of Nicotine Withdrawal Syndrome in Mother Rats

Jung Yul Lim Mechanical & Materials Engineering

Shea Thompson, graphic design. Mechanobiology of Breast Cancer Cell Migration

Michael Lippman Classics and Religious Studies

Nichole Brady, classics and religious studies/classical languages. Didaskalia/An Interactive, Multimedia eBook on Ancient Drama

Ellie Churchill, history/classics and religious studies. Homerathon $2020\,$

Ellen Kratzer, English/graphic design/classical languages. An Interactive, Multimedia eBook on Sophocles' *Antigone*/An Interactive, Multimedia eBook on Ancient Drama

Vanessa Larsen, classics and religious studies. An Interactive, Multimedia eBook on Sophocles' *Antigone*

Alexi Robertson, classics and religious studies/classical languages. An Interactive, Multimedia eBook on Sophocles' *Antigone*

Steven Winston, history/classics and religious studies. An Interactive, Multimedia eBook on Sophocles' *Antigane*

Matthew Loar Classics and Religious Studies

Ellie Churchill, history/classics and religious studies. An Interactive, Multimedia eBook on Ancient Drama

Vanessa Larsen, classics and religious studies. An Interactive, Multimedia eBook on Ancient Drama

Alexi Robertson, classics and religious studies/classical languages. An Interactive, Multimedia eBook on Ancient Drama

Joe Louis Entomology

Earl Agpawa, insect science. Understanding Sorghum Tolerance Against Phloem-Feeding Aphid, *Melanaphis sacchari*

John Dustin Loy Veterinary Medicine and Biomedical Sciences

Claudia Antonika, microbiology. Application and Evaluation of Fourier Transform-Infrared (FT-IR) Spectroscopy Method to Differentiate *Mycobacterium avium ssp paratuberculosis* (MAP) Strains Isolated from Various Hosts

Christopher Mann

Mohammed Al Badaai, accounting. The Cooperation Council for the Arab States of the Gulf and Economic Growth in the Arabian Peninsula

Kaustav Maiumder

Food Science and Technology

Fennomics

Alexander Brady, biochemistry. Modulation of Vascular Calciumsensing Receptors (CaSRs) by Nebraskan Great-Northern Beanderived Gamma-Peptides for the Prevention and Management of Hypertension Associated Vascular Inflammation

Fric Markvicka

Mechanical & Materials Engineering

Will Brovold, mechanical engineering. Wearable Technology - Electronic Bandages

Marco Fabietti, mechanical engineering. Soft Matter Actuators

Aaron Haake, mechanical engineering. 3D Printing Complex Microstructures of Liquid Metal in a Support Bath

Meredith Martin Educational Psychology

Christina Berger, psychology. Predictors of Adolescent Disclosure of Peer Victimization

Brandon Ee, psychology. Predictors of Adolescent Disclosure of Peer Victimization

Cara Jack, psychology. Predictors of Adolescent Disclosure of Peer Victimization

Chris Marvin Special Education and Communication Disorders

Rachel Beeney, speech-language pathology. The Getting Ready Intervention for Young Children at Developmental Risk: Impact on Children's Mean Length of Utterances

Sydney Harrington, speech-language pathology. Getting Ready 0-3

Morgan Padera, speech-language pathology. Getting Ready 0-3

Ana Perez-Senic, sociology/Spanish. The Getting Ready Project: Developmental Risk in Young Spanish Children: Impacts on Children's Mean Lenath of Utterances

Dennis McChargue Psychology

Gabrielle Krause, psychology. The Impact of Sexual Violence History on Substance Use and Dissociative Tendencies in College Women

Irenea Soetjoadi, psychology. Examining the Cross-Cultural Influence of Childhood Trauma on College Alcohol Use and Mental Health

Justin McMechan Entomology

Genereuse Turabawe, integrated science. Larval Movement and Infestation Potential

Tiffany Messer Biological Systems Engineering

Helen Little, biological systems engineering. Treating Non-Point Source Cocktails: Pesticide Removal Utilizing In-Stream Best Management Practices

Taro Mieno Agricultural Economics

Olivier Tuyizere, agricultural economics. The Impact of Saturated Thickness of Groundwater Aquifer on Farmers' Ability to Avoid Significant Economic Damage Under Severe Drought

Ali Moeller Teaching, Learning and Teacher Education

Anna Helzer, Spanish. History and Impact of Centennial College at $\ensuremath{\mathsf{UNL}}$

Mohammad Rashedul Hasan Computer Science and Engineering

Brian Chong, computer science. Automatically Identifying, Counting, and Describing Wild Animals in Camera-Trap Images with Deep Learning

Kristi Montooth Biological Sciences

Alexus Hansen, biological sciences. Overwintering Physiology in Monarch Butterflies (*Danaus plexippus*)

Lauren Reiman, biological sciences. Infection-induced Anorexia in the Face of Energetic and Immune Deficiency

Jia Yin Sum, biological sciences. Uncoupling the Mitochondria as a Cellular Defense Mechanism

Alena Moon Chemistry

Shikshya Bhusal, biochemistry. Investigation of Students' Understanding of Light-Matter Interactions

Stephen Morin

Chemistry/Nebraska Center for Materials and Nanoscience

Matthew Gromowsky, chemistry/biochemistry. Hybrid Droplet Shells with Programmed Magnetic Domains

Etsuko Moriyama Biological Sciences/Center for Biotechnology

Kushagra Kapil, computer science/mathematics. Development and Assessment of an Improved Next-Generation Transcriptome Assembler

Quinn Lanik, computer science. Development, Assessment and Application of Protein-Domain Classification Methods

Benny Mote Animal Science

Lindsay Peters, animal science. Examining Phenotypic Structural Traits as Indicators for Reproductive Longevity Success in Sows

Jessica Namkung Special Education and Communication Disorders

Janelle Bernaky, elementary education. Exploring the Relations Between Executive Function, Self-Efficacy and Mathematics Skills

Morgan Peatrowsky, elementary education. Exploring the Relations Between Executive Function, Self-Efficacy and Mathematics Skills

Sathish Nataraian Nutrition and Health Sciences

Madison Kraus, biological sciences. ZIKA-VIRUS Induces Apoptosis in Retinal and Retinal Glial Epithelial Cells

Jillian Power, microbiology. Maternal Obesity Induces Activation of FoxO Transcription Factors and MicroRNA 34a and Lipoapoptosis in Placental Trophoblast Cells

Siamak Nejati Chemical and Biomolecular Engineering

Andy Mason, chemical engineering and geology. Fabrication of Composite Membranes for Water Desalination

Carl Nelson Mechanical & Materials Engineering

Pin Hao Cheng, mechanical engineering and applied mechanics. Counterbalance System: Principles and Application for Transferring Bedridden Patient

Adonis Nesser, mechanical engineering. Soft Robotic Camera Manipulator for Use in Single-Port Laparoscopic Surgery

Wei Niu Chemical and Biomolecular Engineering

Noha Algahimi, chemical engineering. UNL International Genetically Engineered Machines (iGEM) Team

Michael Banwo, chemical engineering. UNL International Genetically Engineered Machines (iGEM) Team

Logan Hauder, chemical engineering. UNL International Genetically Engineered Machines (iGEM) Team

Gwen Nugent

Nebraska Center for Research on Children, Youth, Families and Schools

Zach Martin, social science. Sustainability of Inquiry-Based Teaching Guided by Instructional Coaches

McKenna Ryan, elementary education. Coaching Strategies: How Do They Differ?

Toshihiro Obata Biochemistry

Cristian Wulkop Gil, biochemistry. Correlation Between Maize Metabolite Levels and Phenotypic Traits

Lameck Odhiambo Biological Systems Engineering

Elizabeth Uwase, integrated science. Evapotranspiration Values and Their Significant Agronomic Importance in Rwandan Agriculture

Peter Olshavsky Architecture

Amy Koenig, architectural studies. The Examination and Reconstruction of Libeskind's "Three Lessons on Architecture"

Erin McNeil, architectural studies. Material Agency in Architecture

Kendra Ordia Architecture

Ashlynn Engelhard, interior design. Spatial Narrative in Biophilic Interior Design

Hasan Otu Electrical and Computer Engineering

Beibei Xiong, electrical engineering. Biomarker Discovery Using High-Throughput Biological Data

Angela Palmer-Wackerly Communication Studies

Carter Bracht, biochemistry. An Analysis of the Behaviors Utilized by Physicians and Medical Students to Cope With Stress

Jae Sung Park Mechanical & Materials Engineering

Kin Hoe Ang, mechanical engineering. Drag Reduction in Turbulent Flows for Energy Saving Engineering

Ryan Pedrigi

Mechanical & Materials Engineering

Kurt Ameku, mechanical engineering. Disturbed Stress-Mediated Remodeling of the Lens Capsule After Cataract Surgery Determines Implanted Accommodative Intraocular Lens Efficacy

Ian McCue, biochemistry/microbiology. Laminar Blood Flow as a Mechanotherapy for Endothelial Cell Dysfunction and Atherosclerosis

Nora Peterson

Modern Languages and Literatures

Rhiannon Cobb, political science/global studies. Refugee Integration in Paris, France, and Lincoln, Nebraska

Chase Pfeifer

Biomedical Engineering/ Nebraska Athletic Performance Laboratory

Connor Albin, biological systems engineering. Engineering Rehabilitation Devices for Integration in "GoBabyGo!" Cars

Kurt Piepenbrink Food Science and Technology/Chemistry

Josephine Liess, biological sciences. *Clostridium perfringens* Adhesion Through Type IV Pili

Alexander Meyer, biochemistry. *Clostridium perfringens* Adhesion Through Type IV Pili

Massimiliano Pierobon Computer Science and Engineering

Brandon Lassalle, biochemistry/microbiology/biological sciences. UNL International Genetically Engineered Machines (iGEM) Team

Rahul Prajapati, computer science. UNL International Genetically Engineered Machines (iGEM) Team

Anton Skretta, philosophy. Ethical Assurance Cases: An Adaptation of Software Engineering Safety Assurance Cases to Provide a Framework for Ethical Considerations Throughout the Development Process

Santosh Pitla

Biological Systems Engineering

Victoria Nelson, mechanical engineering. Unmanned Ground Vehicle Autonomous Behavior in Agricultural Environment

Hessan Sedaghat, mechanical engineering. Development and Integration of a Robotic System to Simulate Autonomous Management in Plant Nursery

Zachary Tate Porter

Architecture

Tara Grebe, architectural studies. Catalog of Speculative Suburban Futures

Scott Lafferty, architectural studies. Slabs, Piles and Rocks: Architecture's Emerging Typologies of Ground

Nicholas Olsen, architectural studies. Figure and Frame in the Architectural Imaginary

Patrick Pineda, architectural studies. Manual of Speculative Suburban Futures

Austin Riggins, architectural studies. Manual of Speculative Suburban Futures, Vol. II

Geneva Sinkula, architectural studies. Manual of Speculative Suburban Futures, Vol. II

Larkin Powell Natural Resources/Biological Sciences

Lindsey LaBrie, fisheries and wildlife/German. How German Prisoners of War and Germans Fleeing the Holocaust Changed Nebraska's Landscape

Erika Swenson, fisheries and wildlife. Effects of Transect Survey Methods on the Accuracy of Animal Densities in the NamibRand Nature Reserve

Robert Powers Chemistry

Paula Evans, child, youth and family studies. Investigating the Phosphorous Metabolome Using NMR Spectroscopy in Order to Understand Cellular Biochemistry

Zhenyu Feng, computer engineering. Creating a Graphical User Interface for MVAPACK

Petronela Radu Mathematics

Andrew Haar, mathematics. Analysis of Nonlocal Operators

Andrzei Raica Chemistry

Alexander Batelaan, chemistry/mathematics. Designing a Diradical with High Thermal Stability

Prahalada Rao Mechanical & Materials Engineering

Benjamin Bevans, mechanical engineering. Additive Manufacturing: Sensor Monitoring in Laser Powder Bed Fusion

Joseph Broadway, mechanical engineering. Validation of a Mathematical Model for Predicting Heat Flux in 3D Printed Titanium Alloy Parts

Bethany Krull, computer engineering. Analyzing Quality of Printed Stellite Coating Using Sensing Data

Heather Richards-Rissetto Anthropology/Natural Resources

Riley Evers, anthropology/art history and criticism/classics and religious studies. Reconstructing the Temple of Inscriptions: Astronomical Relationships, Sociopolitical Shifts and the Landscape at Copan, Honduras

Wayne Riekhof Biological Sciences

Nancy Nguyen, biochemistry. Defining the Mechanism of Action of Plant Derived Polyacetylene Antifungal Compounds

Beverley Rilett English

Michaela Brown, art. Collaborative Digital Literacy Archive Development: The George Eliot Archive

Mackenzie Burch, English. The George Eliot Digital Archive Project/ Building the George Eliot Digital Archive, Phase 2

Shane Clegg, computer science. Building the George Eliot Digital Archive, Phase 2

Grace Erixon, software engineering. Building the George Eliot Digital Archive, Phase 2

John Harkendorff, computer engineering. The George Eliot Digital Archive Project

Seung-Hyun Ro Biochemistry

Caroline Trupp, biochemistry. The Guardian Roles of Sestrin2 Against Inflammatory and Overnutrition Stress in 3T3-L1 White Mouse Adipocytes

Zachary Whipps, biochemistry. The Guardian Roles of Sestrin2 Against Inflammatory and Overnutrition Stress in 3T3-L1 White Mouse Adipocytes

Sabrina Russo Biological Sciences

Susana Moyer, biological sciences. Quantifying Biodiversity in Niobrara Forests

Sangjin Ryu Mechanical & Materials Engineering

Delimulati Diliziba, mechanical engineering. Development of Three-Dimensional Porous Network Models Using Polydimethylsiloxane and Sugar Block

Rajib Saha Chemical and Biomolecular Engineering

Shardhat Daggumati, chemical engineering. Utilizing Methane-Oxidizing Microbes to Mitigate Trichloroethylene in Soil and Groundwater

Tony Le, biochemistry. Utilizing Methane-Oxidizing Microbes to Mitigate Trichloroethylene in Soil and Groundwater

Ashok Samal Computer Science and Engineering

Utkarsh Hardia, computer science/mathematics. Analyzing and Mapping Human Right Violations from Fast Data

Lisa Sample Criminology and Criminal Justice

Mallorie Sckerl, psychology/English. An Investigation into Origins of Sexual Assault in the Catholic Priesthood

Ravi Saraf Chemical and Biomolecular Engineering

Ananth Venkatachalam, chemical engineering. Nanoparticle Necklace Arrays and Its Applications

Mackenzie Savaiano

Special Education and Communication Disorders

Bridget Leutzinger, elementary education and special education K-6. Collaboration Between Teachers and Students with Visual Impairments and General Educators

Alaina Rast, elementary education/special education (K-6). IEP Analysis of Students with Visual Impairments

Madison Thompson, elementary education and special education K-6. Collaboration Between Teachers of Students with Visual Impairments and General Educators

Myra Schmaderer University Health Center/College of Nursing

Hanna Baum, pre-health/nursing. Self-Management in Heart Failure: mHealth Interventions

Wendi Haufle, pre-health/nursing. Self-Management in Heart Failure: mHealth Interventions

Nora Schuele, pre-health/nursing. Self-Management in Heart Failure: mHealth Interventions

Mathias Schubert Electrical and Computer Engineering

Nate Koeppe, electrical engineering. Spectroscopic Ellipsometry-Based Optical Analysis of Slanted Columnar Nanostructures Grown by Glancing Angle Deposition System

Stephen Scott

Computer Science and Engineering

Brennan Rhoadarmer, computer science/mathematics. Medical Image Analysis with Interpretable Deep Learning

Michael Sealy

Mechanical & Materials Engineering

Evan Hymanson, mechanical engineering. Ablative and Confining Layers in Laser Peening for Hybrid Additive Manufacturing

Bonita Sharif

Computer Science and Engineering

Jada Loro, psychology and philosophy. Assessing Emotional Awareness During Bug Fixes

Sarah Oran, software engineering. Assessing Emotional Awareness During Bug Fixes

Abigail Schneff, psychology. Assessing Emotional Awareness During Buq Fixes

Llovd Shenefelt

Architecture

Ciara Allen, architectural studies. On-Site: Active Learning Through Direct Participation in Architecture

Ethan Weiche, architectural studies/philosophy. Design for Change: The Health Impacts of Climate Change on Remote and Rural Populations

Nash Kelly, architectural studies. Design for Change: The Health Impacts of Climate Change on Remote and Rural Populations

Dai Shizuka

Biological Sciences

Chemistry

Kristofor Hans, biological sciences. Investigating the Impact of Sociality on Bird Traits

Leen-Kiat Soh

Computer Science and Engineering

Dana Hoppe, computer science. Effectiveness of Creative Coding as a Platform for Interdisciplinary Education

Marilyne Stains

Justin Shuman, pre-science (7-12). Evaluation of How STEM Faculty Use the First Day of Class and Their Choices of Non-Content Instructor Talk

Joshua Steelman

Civil and Environmental Engineering

Lane Applegarth, civil engineering. Elevating Undergraduate Student Cognition with Artificial Intelligence

Jeff Stevens Psychology/Biological Sciences

McKenna Yohe, psychology/veterinary science. Social Inhibition in Dogs

Pascha Stevenson English

Madelynn Stuart, history/English. Holding Up the Sky: Research-Based Fiction Writing

Cody Stolle Midwest Roadside Safety Facility

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Emily Wiatr, psychology. Genetic Variation and Social Responsiveness

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Glossary of Federal Agency Abbreviations

DHS Department of Homeland Security			ent of Homeland Security
	DHHS	ACF CDC	ent of Health and Human Services Administration for Children and Families Centers for Disease Control Substance Abuse and Mental Health Services Administration
	DOC	Departme EDA NIST NOAA	ent of Commerce Economic Development Administration National Institute of Standards and Technology National Oceanic and Atmospheric Administration
	DoD	AFOSR ARO DTRA DURIP MDA MURI NAVSEA ONR SERDP	ent of Defense Air Force Office of Scientific Research Army Research Office Defense Threat Reduction Agency Defense University Research Instrumentation Program Missile Defense Agency Multidisciplinary University Research Initiatives Naval Sea Systems Command Office of Naval Research Strategic Environmental Research and Development Program U.S. Strategic Command
	DOE	Department of Energy ARPA-E Advanced Research Projects Agency-Energy NETL National Energy Technology Laboratory	
	DOI	Departme FWS NPS	ent of Interior Fish and Wildlife Service National Park Service
	DOJ	Department of Justice NIJ National Institute of Justice	
	DOT	Departme FHWA PHMSA	ent of Transportation Federal Highway Administration Pipeline and Hazardous Materials Safety Administration
	ED	Departme IES	ent of Education Institute of Education Sciences

EPA	Environm	nental Protection Agency	
EPSCoR	Established Program to Stimulate Competitive Research		
IMLS	Institute of Museum and Library Services		
NASA National Aeronautics and Space Administration			
		Cooperative Highway Research Program	
NEA			
NFH	National Endowment for the Humanities		
NIH	National Institutes of Health		
INIT	FIC NCI NHLBI NIAAA	Fogarty International Center National Cancer Institute National Heart, Lung and Blood Institute National Institute on Alcohol Abuse and Alcoholism	
	NIAID	National Institute on Allergy and	
	NIBIB	Infectious Diseases National Institute of Biomedical Imaging and Bioengineering	
	NICHD	National Institute of Child Health and Human Development	
	NIDA	National Institute on Drug Abuse	
	NIDCD	National Institute on Deafness and	
	NIDDK	Communication Disorders National Institute of Diabetes, Digestive and Kidney Disease	
	NIGMS	National Institute on General Medical Sciences	
	NIMH NINDS	National Institute of Mental Health National Institute of Neurological Disorders and Stroke	
NSF	SF National Science Foundation		
USAID	United States Agency for International Development		
USDA	United St AFRI AMS ARS FNS FS NASS NIFA NRCS	Agriculture and Food Research Initiative Agriculture and Food Research Initiative Agricultural Marketing Service Agricultural Research Service Food and Nutrition Service Forestry Service National Agricultural Statistics Service National Institute for Food and Agriculture Natural Resources Conservation Service	

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