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Office of Research and Economic Development

RESEARCH AND CREATIVE ACTIVITY

July 1, 2016 - June 30, 2017

Major Sponsored Programs and Faculty Awards for Research and Creative Activity

University of Nebraska-Lincoln



Steve Goddard
Interim Vice Chancellor for
Research and Economic Development

This booklet highlights successes in research, scholarship and creative activity of the University of Nebraska-Lincoln faculty during the fiscal year July 1, 2016-June 30, 2017.

It lists investigators, project titles and funding sources on major grants and sponsored program 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 by our faculty; and intellectual property licenses and patents issued for the products of Nebraska research.

This booklet is an impressive list, but it is far from comprehensive. Nebraska faculty are contributing to the stature and funding of our research, scholarship and creative activity every day, in everything they do. These accomplishments are key measures of our success, but even more important is our faculty's impact on the world.

Our faculty are looking to the future: tackling complex issues, solving global challenges and addressing the needs of the nation and the people of Nebraska. Whether that work is a woodblock print that leads us to consider our role in shaping the natural world, an innovative program to train child care providers, or mentoring a generation of researchers to fight HIV in Africa, impact begins with the first idea, the first grant, the first publication.

This is why we continue to invest in new ideas, faculty, facilities and opportunities. These investments of time, energy, creativity and support are fueling our faculty's pursuit of excellence. I am pleased to present this record of their accomplishments.

Steve Goddard

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Nebraska faculty are contributing to the stature and funding of our research, scholarship and creative activity every day, in everything they do."

Awards of \$5 Million or More

Active awards, July 1, 2016–June 30, 2017

* Indicates new in 2016-2017

Cahoon, Edgar	Biochemistry/Center for Biotechnology/
	Center for Plant Science Innovation/
	Nebraska Center for Redox Biology
	oot and Rhizobiome Innovation (CRRI)
	NSF-EPSCoR
6/15/16 - 5/31/21	B. J (O (B J
Adamec, Jiri	Biochemistry/Center for Biotechnology/
	Center for Plant Science Innovation/
Alfana James	Nebraska Center for Redox Biology Plant Pathology/Center for Biotechnology/
Alidilo, Jailles	Center for Plant Science Innovation/
	Nebraska Center for Redox Biology
Clamente Thomas	Agronomy and Horticulture/
Ciemente, montas	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	Chemistry/Center for Biotechnology/
	Center for Plant Science Innovation/
11 Pl = T	Nebraska Center for Redox Biology
Helikar, Iomas	Biochemistry/Center for Biotechnology/
	Center for Plant Science Innovation/
Horr Joshua	Nebraska Center for Redox Biology Plant Pathology/Center for Biotechnology/
rieri, Joshua	Center for Plant Science Innovation/
	Nebraska Center for Redox Biology
Morivama, Etsuko Biol	ogical Sciences/Center for Biotechnology/
,,	Center for Plant Science Innovation/
	Nebraska Center for Redox Biology
Russo, Sabrina Biol	ogical 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, KarinBio	ochemistry/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/
	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
Yu, Bin Biologico	al Sciences/Center for Biotechnology/
	Center for Plant Science Innovation/
	Nebraska Center for Redox Biology
Zhang, Chi Biologica	al 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 Experimental 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 co-leaders are Edgar Cahoon, George W. Holmes Professor of Biochemistry and director of the Center for Plant Science Innovation, and James Alfano, Charles Bessey Professor of Plant Pathology. The research uses a holistic strategy to study root and soil microbe interactions and to develop new biological tools to enhance crop performance.

Claes, Daniel

Physics and Astronomy

eXtension

U.S. CMS Phase-1 Upgrades



Physicist Daniel Claes leads a collaboration involving eight universities to upgrade the Compact Muon Solenoid particle detector, a key component of the world's largest physics experiment. With a five-year, nearly \$11.5 million grant from the National Science Foundation, the team is working to increase the effectiveness of a vital component of the

Large Hadron Collider at CERN laboratory in Switzerland, the supercollider that made discovery of the Higgs boson possible. The Nebraska team was part of the multi-institutional collaboration that built the original CMS experiment, one of two large particle detector experiments at the Large Hadron Collider. With this NSF grant, they now lead a large research partnership to upgrade the detector in stages through 2019. Their collaborators are at the University of Kansas, University of Illinois at Chicago, Rutgers University, Cornell University, SUNY Buffalo, Purdue University Calumet, Notre Dame University and Northeastern University.

Dickey, Elbert

eXtension Building Cooperative Extension's 21st Century Network 6,025,596... USDA-NIFA 9/1/11-8/31/16



The eXtension Initiative is an Internet-based Cooperative Extension Service education and information system. The University of Nebraska–Lincoln leads this multi-year project, which partners with the University of Kentucky, North Carolina State University and Virginia Tech University. This collaborative effort of the nation's 107 land-grant universities and the U.S.

Department of Agriculture's Cooperative State Research, Education and Extension Service develops content and technology for the eXtension project. eXtension is a virtual educational environment that provides science-based, objective information. Users may take advantage of learning opportunities and interact with the expertise available from the land-grant university system by visiting www.extension.org.

Dussault, Patrick Chemistry

Building Infrastructure in Nanohybrid Materials and Algal Biology Research

	i biology keseurch
\$12,233,538	NSF-EPSCoR
10/01/10 - 09/30/16	
Bailey, Cheryl	Biochemistry
Black, Paul	Biochemistry
Cahoon, Edgar	Biochemistry/
-	Center for Plant Science Innovation/
Cerutti, Heriberto	Biological Sciences/
	Center for Plant Science Innovation
Clemente, Thomas	Agronomy and Horticulture/
	Center for Plant Science Innovation
DiRusso, Concetta Bio	ochemistry/Nutrition and Health Sciences
Hage, David	Chemistry
Han, Ming	Electrical and Computer Engineering
Hudgins, Jerry	Electrical and Computer Engineering
	Electrical and Computer Engineering
Lai, Rebecca	Chemistry
Li, Yusong	Civil Engineering
Lu, Yongfeng	Electrical and Computer Engineering
Markham, Jonathan	Biochemistry
	Biological Sciences
	Biological Systems Engineering
Riekhof, Wayne	Biological Sciences
	Electrical and Computer Engineering
Schubert, Mathias	Electrical and Computer Engineering
	Chemistry
	Biochemistry
Van Etten, James	Plant Pathology



Nebraska's Center for Nanohybrid Functional Materials combines the efforts of chemists, engineers and biologists to develop fundamental new science related to sensing and separation of targets ranging from small molecules to toxins. The center is led by Patrick Dussault, Charles Bessey Professor of Chemistry, and Mathias Schubert, associate

professor of electrical and computer engineering. The center brings together investigators from two broad areas of science. One group has experience in creating highly ordered nanostructures, such as tiny silicon spirals that have unique characteristics in terms of how they appear under certain frequencies of light. Other center members are experts in using chemical and biochemical agents such as RNA or antibodies to bind a particular target such as a drug or a virus.

The funding award is the major part of a five-year, \$20 million Nebraska EPSCoR grant involving faculty from four other universities: University of Nebraska Medical Center, University of Nebraska at Kearney, Creighton University and Doane College.

Goddard, Steve 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.

Graef, Michelle Center on Children, Families and the Law

*Quality Improvemen	t Center for Workforce Development
\$15,000,000	DHHS-ACF
09/30/16 - 09/29/21	
Ells, Mark	Center on Children, Families and the Law
Paul, Megan	Center on Children, Families and the Law
Stephenson, Kate	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,

research associate professor in the Center on Children, Families and the Law, this multidisciplinary project will study and test promising strategies to help child welfare agencies recruit and retain staff workers. Nebraska will collaborate with three national child welfare consultants and researchers at the University of Colorado, Denver; University of Louisville; and University of Tennessee, Knoxville. The center will draw 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

Developing the Next Ge	neration of Kwandan Agricultural Leaders
\$47,492,836	
7/1/15 - 5/31/23	
Davis, Joshua	Global Engagement
Waller, Steven	Center for Grassland Studies



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 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 interim dean Tiffany Heng-Moss leads this effort.

Lewis, Jim

Mathematics/Center for Science, Mathematics and Computer Education

and Computer Education

Smith, Wendy Center for Science, Mathematics



A grant from The Sherwood Foundation® and the Lozier Foundation supports a three-year partnership between Omaha Public Schools and Nebraska's Center for Science, Mathematics and Computer Education to fund the NebraskaMATH Omaha Public Schools Teacher Leader Academy. Led by Jim Lewis, Douglas Professor of Mathematics, the

program gives a community of OPS mathematics teachers from grades K-12 access to continuing education and graduate coursework centered on math education. The goals of the OPS initiative are to strengthen mathematics learning in Omaha classrooms, narrow student achievement gaps between different populations and conduct research that continues to inform school improvement efforts.

Moxley, Rodney Veterinary Medicine and Biomedical Sciences



Veterinary scientist Rodney Moxley 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 Engineering/ Nebraska Transportation Center



The Mid-America Transportation Center, a consortium of academic institutions led by the University of Nebraska–Lincoln, will lead 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 new 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

The U.S. Department of Transportation's Research and Innovative Technology Administration has designated the university's Mid-America Transportation Center (MATC) as a regional university transportation center. The center's focus is improving safety and minimizing risk associated with increasing multi-modal freight movement on the U.S. surface transportation system. MATC focuses on safety research related to rural transportation. Key safety research areas include traffic control, animal crashes, safer at-grade railway crossings and work zones, and the development of more effective and economical roadside crash barriers. The university transportation center program supports transportation research, education and technology transfer that promote scientific innovations in a variety of transportation modes and disciplines. Region 7 serves lowa, Kansas, Missouri and Nebraska. It is one of 10 regional university transportation centers in the nation.

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

\$13,460,684	
8/15/15 - 8/31/20	
Dweikat, Ismail	. Center for Plant Science Innovation/
	Agronomy and Horticulture
Ge, Yufeng	Biological Systems Engineering
Zygielbaum, Arthur	. Center for Plant Science Innovation/
	Natural Resources



Daniel Schachtman, 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)

\$11,271,372NIH-NIGMS
8/15/16 - 7/31/21
Becker, Donald Biochemistry/NCIBC
Buan Murphy, Nicole Biochemistry/NCIBC
Cerny, Ronald Chemistry/NCIBC
Clarke, Jennifer Statistics/Food Science and Technology/NCIBC
DiRusso, Concetta Biochemistry/NCIBC
Dodds, Eric Chemistry/NCIBC
Hage, David Chemistry/NCIBC
Harris, Edward Biochemistry/NCIBC
Kidambi, Srivatsan Chemical and Biomolecular Engineering/NCIBC
Lee, Jaekwon Biochemistry/NCIBC
Morton, Martha Chemistry/NCIBC
Powers, Robert
Riethoven, Jean-Jack Center for Biotechnology/ NCIBC
Simpson, MelanieBiochemistry/ NCIBC
Stains, Clifford Chemistry/NCIBC
Velander, WilliamChemical and Biomolecular Engineering/NCIBC
Zhou, YouCenter for Biotechnology/NCIBC



With a five-year, \$11.3 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

Center for NanoFerroic Devices \$7,285,500 DOC-NIST through Semiconductor Research Corp.-Nanoelectronics Research Corp.

4/1/13 - 12/31/17



The University of Nebraska leads a \$7.125 million research collaboration involving six universities and an industry consortium to develop a new generation of electronic devices. Semiconductor Research Corp. and the National Institute of Standards and Technology have awarded a university physics team a five-year contract to lead the Center for

NanoFerroic Devices as part of the Nanoelectronics Research Initiative. The center is harnessing the significant advances the university and its Materials Research Science and Engineering Center (MRSEC) have made in exploring nanomaterials with unique properties that may prove the key to surpassing the limitations of current technology. Evgeny Tsymbal, George Holmes University Professor of Physics and MRSEC director, co-directs the Center for NanoFerroic Devices with physicist Peter Dowben. The university is partnering with researchers at the University of California, Irvine, University of Wisconsin-Madison, University at Buffalo, SUNY, University of Delaware and Oakland University. This joint research will help transform basic university discoveries and knowledge into actual devices, in collaboration with industry.

Materials Research Science & 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 and 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.

Wood, Charles

Biological Sciences/ Nebraska Center for Virology

Nebraska Center for Virology



Charles Wood, Lewis Lehr/3M University Professor of Biological Sciences, is the director of the Nebraska Center for Virology. The center, funded by the National Institutes of Health, combines the expertise and facilities of Nebraska's leading biomedical research institutions: the University of Nebraska— Lincoln, the University of Nebraska Medical

Center and Creighton University. Center research addresses pathogenic and therapeutic aspects of some of the most devastating viral and neuroimmune disorders facing the global community, including AIDS, HIV-associated cancers, Alzheimer's disease and chronic infections caused by herpes viruses and a new class of infectious agents called prions.

Kaposi's Sarcoma & Human Herpesvirus in Africa	
\$5,794,724	NIH-NCI
7/16/10 - 4/30/18	
West, John	r Virology

Since the onset of the AIDS epidemic, Kaposi's sarcoma has become the most frequently diagnosed pediatric cancer in sub-Saharan Africa. It is associated with Human Herpesvirus 8 (HHV-8) and Kaposi's Sarcoma Herpesvirus. The project seeks to understand how these viruses are transmitted to children by studying children in Lusaka, Zambia. The goal is to establish the rates of transmission and to identify virologic, immunologic and ethnographic risk factors that predispose children to HHV-8 infection. It is anticipated that the information could be used to develop intervention strategies.

Zempleni, Janos

Nutrition and Health Sciences

COBRE: Nebraska Center for the Prevention of



With the support of an \$11.3 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, 2016–June 30, 2017

^{*} Indicates new in 2016–2017

Baenziger, P. Stephen Agro Improving Barley and Wheat Ger for Changing Environment \$1,065,801 USDA through Univers Lee, Donald Agro Regassa, Teshome Agro Waters, Brian Agro	ts . sity of California, Davis nomy and Horticulture nomy and Horticulture
Balkir, Sina Ultra-Low-Power Long-Duration Progression Remote Radiation Monitoring Sensor \$1,385,150 Bauer, Mark Electrical and Hoffman, Michael Electrical and	r Electronics DoD-DTRA Computer Engineering
Barlow, Steven Con Somatosensory Modulation of Salivary G and Oral Feeding in Preterm In \$2,747,458	nfants .
Becker, Donald Nebraska Ce Redox Biology Center \$4,305,466	Biochemistry/ enter for Redox Biology
Molecular Mechanisms of Dis \$1,078,105 Black, Paul.	sease NIH-NIGMS
Mechanistic Studies of Functional in the PutA Flavoprotein \$1,244,730	· ·
Bellows, Laurie TRIO – Ronald E. McNair Postbaccalaureate A \$1,095,094	

Composition of the GI Microbiota and to Enterohemorrhagic Escherichia coli (E as Complex Polygenic Traits in B \$2,354,004	HEC) Colonization eef CattleUSDA-NIFAStatistics
Determination of the Importance of Col in the Assembly of the Gastrointestir \$1,194,259	nal Microbiota
Bevins, Rick	Psychology
Pharmacological Intervent to Diminish Nicotine-Associated F \$1,429,752	Responding
Bilder, Christopher Group Testing for Infectious Diseas Multiplex Assays and Back-End S \$1,137,836	Screening
Bloom, Kenneth Experimental Particle Physics at the Energy \$2,055,000 Claes, Daniel Kravchenko, Ilya Snow, Gregory	NSF Physics and Astronomy Physics and Astronomy
U.S. CMS Operations at the \$4,209,412 NSF throu Dominguez, Aaron	igh Princeton University Physics and Astronomy
Bobaru, Florin MuRI Center for Material For Prediction through Peridyna \$1,003,134	ımics
	Science and Engineering
SI2-SSI Data Intensive Analys High Energy Physics (DIANA	sis for
\$1,001,324	NSF

Boeckner, Linda	Extension	Injection Risk Networks i	
Innovation and Collaboration: Creating a Childhood Obesity Prevention Graduc \$1,450,389 USDA-NIFA through South D Anderson-Knott, Mindy	ate Program Jakota State University	\$2,970,743	
De Guzman, Maria		Duppong Hurley, Kristin	Special Education and
Fischer, Jean Nutritio	n and Health Sciences	Supposition (in the control of the c	Communication Disorders
Takahashi, ShinyaNutritio	n and Health Sciences	Parent Connectors: An Effica	
Ochoon Edges	Dischamistry	for Parents of Middle-School Youth	
Cahoon, Edgar	Biochemistry/ Int Science Innovation	\$3,206,013	Special Education and
Biochemical Genomics:	IIII OCICIICE IIIIIUVAIIUII	Torkelson frout, Alexandra	Communication Disorders
Deciphering the Chemical Factories	of Oilseeds		
\$1,315,031 NSF through Washi	ngton State University		chanical & Materials Engineering
Moriyama, Etsuko	. Biological Sciences/ ant Science Innovation	Optimal Stent Selection for the \$1,028,824	NIH-NHLBI through UNMC
Ciobanu, Daniel	Animal Science	2007 4:014,740:40:4	manior a material Engineering
Translational Genomics for Imp Sow Reproductive Longevit	roving	Elbaum, Sebastian Co *NRI: Enabling Unmanned Aerial	mputer Science and Engineering
\$1,166,650	,	in Complex Firefigh	ntina Contexts
Kachman, Stephen		\$1,003,270	NSF
Riethoven, Jean-Jack		Allen, Craig	
Spangler, Matthew	Animai Science	Bradley, Justin	
Diamond, Judy University of Ne	ebraska State Museum	Duncan, Brittany	
Biology of Human: Understanding		Pytlik Zillig, Lisa	Public Policy Center
through the Lens of Current Biomedic	al Research	Twidwell, Dirac	Agronomy and Horticulture
\$1,386,925	NIH-NCRR	Funes Wedin Newsy Teaching	Learning and Teacher Education
Angeletti, Anisa		Engen-Wedin, Nancy Teaching, Indigenous Roots Teacher	Learning and Teacher Education
McQuillan, Julia		\$1,174,067	
Wood, Charles	Biological Sciences/	Ų 1,17 1,000 1111111111111111111111111111	
Nebras	ka Center for Virology	Farritor, Shane Med	chanical & Materials Engineering
Diekey Elbert	aVtancian	Robotic Tele-Surge	
Dickey, Elbert eXtension Military Families Learning	eXtension	\$2,084,873	
\$2,240,454	,	Nelson, Carl Med Terry, Benjamin Med	
, , , ,		Terry, Berljamin	Silamed & Waterials Engineering
Dombrowski, Kirk	Sociology	Fischer, Jean	Nutrition and Health Sciences
Measuring Social Behavior via Dynamic Ne	twork Interaction	Supplemental Nutrition Assist	
\$1,224,423		\$1,639,728 Naharaha Danastara	
Maerlender, Arthur Center for Brain		Behrends, Donna	nt of Health and Human Services Nutrition and Health Sciences
Swearer, SusanE		Boeckner, Linda	Extension
		Carr, Timothy	Nutrition and Health Sciences
		Hartline, Morgan	Nutrition and Health Sciences
	1	Sehi, Natalie	Nutrition and Health Sciences

Fontaine, Joseph Use and Satisfaction of Public Hunting Opportunities \$1,771,671	Guretzky, John Agronomy and Horticulture Agro-Ecosystem Approach to Sustainable Biofuels Production \$1,916,143
Frankl, Nicole Nebraska Local Technical Assistance Program Nebraska Local Technical Assistance Program FY 2016 \$1,118,920	Yuen, Gary
Garcia Ruiz, Hernan Plant Pathology/ Nebraska Center for Virology *Recognition and Recruitment of RNA Viruses	\$1,075,264NIH-NIDDK Harris, Edward Biochemistry
into RNA Silencing Pathways \$1,312,105NIH-NIGMS	Liver-Mediated Clearance of Low Molecular Weight Heparins \$1,464,325
Gaussoin, Roch ConAgra Popcorn Breeding Maintenance \$1,695,945	Hayes, Michael Providing Drought Information Services for the Nation: The National Drought Mitigation Center \$2,443,222
Nanoscale Resistive Switching Behavior of Ferroelectric and Multiferroic Tunnel Junctions \$1,500,000	Knutson, Cody
Guo, Jiantao Improve the Safety of an Efficacious Live-Attenuated HIV-1 Vaccine through Unnatural Amino Acid-Mediated Suppression of Blank Codon \$1,919,552	Hein, Gary A Predictive Model to Increase Adoption of IPM of a Mite-Virus Disease Complex in Wheat \$3,375,000 USDA-AFRI Anderson-Knott, Mindy Sociology Bradshaw, Jeffrey Panhandle Research and Extension Center Golick, Douglas Entomology Wegulo, Stephen Plant Pathology Zygielbaum, Arthur School of Natural Resources

Helikar, Tomas Biochemistry	Johnson, Scott Biological Process Development Facility
*A Predictive Multi-scale Model of the Immune System:	Process Research, Development and Manufacturing of 5P12 RANTES
An Integrated Resource for Interdisciplinary Applications	\$4,186,468 Mintaka Foundation for Medical Research
\$1,780,567NIH-NIGMS	Buchholz, Wallace Biological Process Development Facility
An Innovative Computational Modeling Intervention	buchnoiz, wanace biological Process Development Facility
to Facilitate Learning of Biology Using	
Simulation and Dynamical Systems Approaches	Josiah, Scott Nebraska State Forest Service
	Cooperative Forestry Program
\$2,321,012	\$1,080,067 USDA-FS
Brassil, Chad	
Dauer, Joseph	Khalimonchuk, Oleh Biochemistry
Harris, StevenPlant Pathology	Mechanisms of Mitochondrial Quality Control and Protection
	\$1,421,695NIH-NIGMS
Houston, Adam Earth and Atmospheric Sciences	ψ ·, · · · · · · · · · · · · · · · · · ·
RII Track-2 FEC: Unmanned Aircraft System	Vroyahanka Ilya
for Atmospheric Physics	Kravchenko, Ilya Physics and Astronomy
\$1,454,757NSF through Oklahoma State University	Particle Physics Research with the CMS Experiment at the LHC
Detweiler, Carrick Computer Science and Engineering	\$2,070,000NSF
Pytlik Zillig, Lisa Public Policy Center	Bloom, Kenneth
Van Den Broeke, Matthew Earth and Atmospheric Sciences	Claes, Daniel Physics and Astronomy
	Snow, Gregory Physics and Astronomy
Huang, Jinsong Mechanical & Materials Engineering	
Developing Efficient Perovskite/Silicon Tandem Devices	Kunz, Gina Nebraska Center for Research on
\$1,211,076	Children, Youth, Families and Schools
Ţ 1,2 1 1,6 7 G 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	School Psychology Specialization in Toddlers
High-efficiency Low-cost Nanocomposite for Radiation Detection	with Autism Spectrum Disorders
Enabled by Charge-Triggered Secondary Charge Injection	\$1,249,730ED
\$1,050,000	
+ 1,1,	Lewis, Elizabeth Teaching, Learning and Teacher Education
Irmak, Suat Biological Systems Engineering	UNL Science Scholars Program
Measurement of Growing Season Actual Crop	\$1,194,387NSF
Evapotranspiration and Crop Coefficients, and Dormant	Bonnstetter, RonTeaching, Learning and Teacher Education
Season Evaporative Losses for Key Vegetation Surfaces	Claes, Daniel
in the Central Platte Natural Resources District	Gosselin, David
\$1,409,675 Central Platte NRD	Heng-Moss, Tiffany Entomology
Kilic, Ayse	Pedersen, Jon Teaching, Learning and Teacher Education/
Martin, Derrel Biological Systems Engineering	Center for Science, Mathematics
van Donk, Simon Biological Systems Engineering	and Computer Education
Verma, Shashi	Swidler, StephenTeaching, Learning and Teacher Education
verifia, Silasiiivatardi kesources	g, ===g ===
Johnson Motthew Revokeleny/	Li, Ming Psychology
Johnson, Matthew Psychology/	Serotonin, Maternal Behavior and Postpartum Depression
Center for Brain, Biology and Behavior	\$1,468,032NIH-NIMH
*RII Track-2 FEC: Neural Networks Underlying the Integration	ψ1,100,002
of Knowledge and Perception	
\$1,187,503	
Dodd, Michael	
Center for Brain, Biology and Behavior	

Li, Xu Civil Engineering *Mitigating the Risk of Antibiotic Resistance at Critical Control Points	Napolitano, Scott Educational Psychology/ Center for Brain, Biology and Behavior/
in the Beef Cattle Manure Management Systems	Nebraska Center for Research on
\$1,200,000 USDA-NIFA	Children, Youth, Families and Schools
Bartelt-Hunt, ShannonCivil Engineering	*School Psychology Specialization in Concussion/
Erickson, Galen Animal Science	Mild Traumatic Brain Injury (mTBI)
Schmidt, Amy Animal Science/Biological Systems Engineering	\$1,191,884ED
Wang, Bing Food Science and Technology	Maerlender, Arthur Center for Brain, Biology and Behavior/ Nebraska Center for Research on
Lodl, Kathleen Extension	Children, Youth, Families and Schools
Child Care and Youth Training and Technical Assistance Project	
\$3,390,000	Olson, Kristin Sociology/Gallup Research Center
Cl. 13C :	Reducing Error in Computer Survey Data Collection
Click2Science	\$3,484,525NSF
\$1,016,500 Noyce Foundation through University of San Diego - CEPAL	Belli, Robert
Offiversity of Sail Diego - CEFAL	Smyth, Jolene Sociology/Gallup Research Center
Ly Vanafana Flastriael and Computer Engineering	Soh, Leen-Kiat
Lu, Yongfeng Electrical and Computer Engineering Portable Fiber Laser System and Method to Remove Pits	Down Mark
and Cracks on Sensitized Surfaces of Aluminum Alloys	Pegg, Mark Natural Resources
\$1,025,000	Missouri River Sportfish Ecology and Management
Ψ1,023,000 Dob ONN	\$1,324,787Nebraska Game and Parks Commission Hamel, MartinNatural Resources
Lubben, Bradley Agricultural Economics	namei, Martin
North Central Risk Management Education Center	Dávoz Longo Asadomio Affairo
\$3,253,008	Pérez, Lance Academic Affairs
\$3,233,000 03D/(14II/(WIDER: Adopting Research-Based Instructional Strategies for Enhancing STEM Education
Mackenzie, Sally Agronomy and Horticulture/	\$1,990,279
Biological Sciences	Arthurs, Leilani Earth and Atmospheric Studies
Epigenetic Breeding in Crops	Couch, BrianBiological Sciences
\$2,996,073 Bill & Melinda Gates Foundation	Golick, DouglasEntomology
	Heaton, RuthTeaching, Learning and Teacher Education
Mendoza-Gorham, Joan Student Affairs	Lee, Kevin Center for Science, Mathematics and
Lincoln Upward Bound	Computer Education/Physics and Astronomy
\$1,351,875	Spiegel, AmyEducational Psychology Stains, MarilyneChemistry
	stains, Marilyne
Upward Bound Math/Science Program	Diekard Cory
\$1,306,646	Pickard, Gary Veterinary Medicine and
	Biomedical Sciences Homeostatic Regulation
Molfese, Victoria Child, Youth and Family Studies	HOMEOSTATIC REGULATION
Development Implications of Early Childhood Sleep	
	of Peripheral Oscillators via Autonomic Circuitry
\$1,393,519NIH-NICHD through Indiana University	of Peripheral Oscillators via Autonomic Circuitry \$1,761,617NIH-NINDS
\$1,393,519NIH-NICHD through Indiana University Molfese, DennisPsychology	of Peripheral Oscillators via Autonomic Circuitry
\$1,393,519NIH-NICHD through Indiana University	of Peripheral Oscillators via Autonomic Circuitry \$1,761,617NIH-NINDS Sollars, PatriciaVeterinary Medicine and Biomedical Sciences
\$1,393,519NIH-NICHD through Indiana University Molfese, DennisPsychology	of Peripheral Oscillators via Autonomic Circuitry \$1,761,617
\$1,393,519NIH-NICHD through Indiana University Molfese, DennisPsychology	of Peripheral Oscillators via Autonomic Circuitry \$1,761,617
\$1,393,519NIH-NICHD through Indiana University Molfese, Dennis	of Peripheral Oscillators via Autonomic Circuitry \$1,761,617

Qiao, Wei	Electrical and Computer An Online Intelligent Prognostic Health Monitoring System for Wind Turbines	Engineering		Student Affairs ducational Talent SearchED
Hudgins, Je Qu, Liyan Rajca, Andr \$1,208,299	rry Electrical and Computer Electrical and Computer	Engineering Engineering Chemistry . NIH-NIBIB	*Mid-Plains Professional \$1,082,718	Special Education and Communication Disorders Upgrade Partnership - Sensory Disabilities
Auto \$1,365,031 Riethoven, Steffen, Da Reid, John \$1,095,000 Bielenberg,	Jayagopala Biomedic immunity in the Mediation of Infectious Myocal	al Sciences rditis NIH-NHLBI otechnology cal Sciences Engineering nsportation fety Facility	\$3,494,096	Nanoscale Facility of NNCI
Faller, Rond Reid, John Transpo \$3,171,651 Faller, Rond \$1,262,880	Traffic Calming Elements for Entry Control Facility Threat Delay and Containment	rch Institute ngineering/ ition Center ngineering/ ition Center poratory WA through nsportation fety Facility n WA through n-American	\$4,499,878	Educational Psychology/ Nebraska Center for Research on Children, Youth, Families and Schools/ Buffett Early Childhood Institute Intexts in Rural and Urban Nebraska ED-IES Educational Psychology/ Nebraska Center for Research on Children, Youth, Families and Schools/ Buffett Early Childhood Institute Public Policy Center/ Nebraska Center for Research on Children, Youth, Families and Schools/ Buffett Early Childhood Institute Buffett Early Childhood Institute/ Nebraska Center for Research on Children, Youth, Families and Schools Nebraska Center for Research on Children, Youth, Families and Schools Nebraska Center for Research on Children, Youth, Families and Schools/ Buffett Early Childhood Institute

A Randomized Trial of Conjoint Behavioral Consultation (CBC) with Latino Students: A Replication Study	Searls, MindiCenter for Science, Mathematics and Computer Education/
\$3,499,987 ED-IES	Earth and Atmospheric Sciences
Bovaird, JamesEducational Psychology	Thomas, AmandaTeaching, Learning and Teacher Education
Wheeler, Lorey Nebraska Center for Research on	Thomas, JulieCenter for Science, Mathematics
	Thomas, Julie
Children, Youth, Families and Schools	and Computer Education/
Witte, Amanda Nebraska Center for Research on	Teaching, Learning and Teacher Education
Children, Youth, Families and Schools	·
	Nebraska NOYCE: NSF Mathematics Teaching
F. L. J. M. J. L. J.	
Early Learning Network Lead	and Master Teaching Fellows Program
\$1,999,987ED	\$3,000,000NSF
Knoche, Lisa Nebraska Center for Research on	Fowler, DavidTeaching, Learning and Teacher Education
Children, Youth, Families and Schools	Kauffman, DouglasEducational Psychology
Children, Touth, Fulfilles and Schools	
	Papick, Ira Mathematics/Center for Science,
Efficacy of the Getting Ready Intervention at	Mathematics and Computer Education
Supporting Parental Engagement and Positive Outcomes	Swidler, StephenTeaching, Learning and Teacher Education
C D COLL C C C C C C C C C	Swidier, Stephenreaching, Learning and reacher Education
for Preschool Children at Educational Risk	
\$3,212,919 ED-IES	Stains, Clifford Chemistry
Bovaird, JamesEducational Psychology/	
Nebraska Center for Research on	*Chemical Approaches for Interrogating
	Fundamental Biomedical Processes
Children, Youth, Families and Schools	\$1,610,142NIH-NIGMS
Clarke, Brandy Nebraska Center for Research on	, ,, ,,
Children, Youth, Families and Schools	
Edwards, CarolynChild, Youth and Family Studies/Psychology	Starace, Anthony Physics and Astronomy
	Imaging and Controlling Ultrafast Dynamics
Knoche, Lisa Nebraska Center for Research on	of Atoms, Molecules, and Nanostructures
Children, Youth, Families and Schools	
	\$2,451,966 NSF-EPSCoR
Marvin, ChristineSpecial Education and	\$2,451,966 NSF-EPSCoR
	\$2,451,966 NSF-EPSCoR Batelaan, Herman Physics and Astronomy
Marvin, ChristineSpecial Education and	\$2,451,966
Marvin, ChristineSpecial Education and Communication Disorders	\$2,451,966
Marvin, Christine	\$2,451,966
Marvin, Christine Special Education and Communication Disorders Shulski, Martha Natural Resources Regional Climate Services Support in the High Plains Region \$2,232,265 DOC-NOAA Umphlett, Natalie Natural Resources Smith, Wendy Mathematics/Center for Science, Mathematics and Computer Education	\$2,451,966
Marvin, Christine Special Education and Communication Disorders Shulski, Martha Natural Resources Regional Climate Services Support in the High Plains Region \$2,232,265 DOC-NOAA Umphlett, Natalie Natural Resources Smith, Wendy Mathematics/Center for Science, Mathematics and Computer Education *Nebraska Partnership TEAMS	\$2,451,966
Marvin, Christine	\$2,451,966
Shulski, Martha Regional Climate Services Support in the High Plains Region \$2,232,265	\$2,451,966
Marvin, Christine	\$2,451,966
Shulski, Martha Regional Climate Services Support in the High Plains Region \$2,232,265	\$2,451,966

Storz, Jay Mutational Pleiot Adaptive Evolution	Biological Sciences ropy, Epistasis, and the of Hemoglobin Function	Promoting Transition Outcomes in Youth with LD and EBD: An Efficacy and Replication Study of the On the Way Home Aftercare Intervention
\$1,386,044		\$3,487,223 ED-IES Duppong Hurley, Kristin Special Education and Communication Disorders
Change Mitigation and Ac \$4,295,536	Biological Systems Engineering tension Programming in Climate daptation for Animal Agriculture	Umphlett, Natalie High Plains Regional Climate Center \$1,218,437
Swanson, David State St	Matural Resources f the MENA Regional Inagement System	Umstadter, Donald Low Dose Tomographic System Based on a Novel Narrowband, Tunable, Multi-MeV X-Ray Source \$2,677,409
Thomas, Anne	Special Education and Communication Disorders grade Partnership-Itinerant	Starace, Anthony Physics and Astronomy
\$1,199,400 Bovaird, James	EDNebraska Center for Research on	Laser Produced Coherent X-Ray Sources \$1,994,997
Welch, Greg	Nebraska Center for Research on Children, Youth, Families and Schools	Velander, William Chemical and Biomolecular Engineering Technologies for Hemostasis and Stabilization of the Acute Traumatic Wound
Torkelson-Trout, Alexandra	Special Education and Communication Disorders/	\$1,783,613 DoD-USAMRAA through UNMC
A Missing Link Developing Health Lite with High Ine \$1,499,994 Duppong Hurley, Kristin Ac Lambert, Matthew	co a Better Tomorrow: eracy in Transition-Age Youth cidence Disabilities	Viesca, Kara Teaching, Learning and Teacher Education *International Consortium for Multilingual Excellence in Education \$2,739,661

Walia, Harkamal	Agronomy and Horticulture c Mechanisms Underlying Salt Tolerance in	Wood, Charles
Rice acre	oss Developmental Stages	Al
\$2,035,509		¢1 400 515
Samal, Ashok	Agronomy and HorticultureComputer Science and Engineering	\$1,482,515
Wang, Dong	Computer Science and Engineering	
Wardlow, Brian	Natural Resources	\$3,745,745
	ught Response Index (QuickDRI):	Angeletti, Peter
	to Maximizing the Use of NASA Data Sets esponse Drought Monitoring	Minhas, Veenu . West, John
\$1,150,701	NASA	, , , , , , , , , , , , , , , , , , ,
	Natural Resources	Ne of Su
Svoboda, Mark	Natural Resources Natural Resources	\$1,712,314
Tadesse, Tsegaye	Natural Resources	Program
Walley Ountle	Future in Dislocial Outtons Funiversity	\$2,713,284
Weller, Curtis	Extension/Biological Systems Engineering/ Food Science and Technology	, , , , , , , , , , , , , , , , , , , ,
Manufacturina Exter	nsion Partnership Center for Nebraska	Yamamoto, Cath
	DOC-NIST	40.405.400
	Midwest Roadside Safety Facility	\$2,495,403
Wei, Timothy	Engineering	Zempleni, Janos
Whitbeck, Les	Sociology	Zempiem, Janus
	ered Ojibwe Substance Abuse Prevention	
	NIH-NIDA	Molecular Si
Crawford, Devan	Sociology	¢1 705 715
		\$1,785,715 Adamec, Jiri
Wiebe, Matthew	Veterinary Medicine and Biomedical Sciences	, radinos, sir
Machanis	m of the Antiviral Activity of	
	t Poxvirus and HSV-1 Infection	Cui, Juan
	NIH-NIAID	
Williams, Robert	Mechanical & Materials Engineering	
	ustrial Assessment Center (NIAC)	
	DOECivil Engineering	
Gogos, George	Mechanical & Materials Engineering	
Wilson, Mark	Biochemistry/	
	Nebraska Center for Redox Biology	
	egulation of DJ-1 Function	
\$1,330,374	NIH-NIGMS	

	Nebraska Center for Virology
AIDS M	alignancies Training and Research
	ernational Program (AMTRIP)
\$1,482,515	NIH-FIC
and Ir \$3,745,745	r Research International Training Intervention Consortium (CRITIC)
\$2 713 28 <i>I</i> I	NILL EIC
ΨΖ,/ 13,204	NIH-FIC
Yamamoto, Catherine	Student Affairs
Yamamoto, Catherine Stud	
Yamamoto, Catherine Stuc \$2,495,403 Zempleni, Janos	Student Affairs lent Support Services Program
Yamamoto, Catherine Stuce \$2,495,403 Zempleni, Janos Molecular Signatur \$1,785,715 Adamec, Jiri	Student Affairs lent Support Services Program

Biological Sciences/Biochemistry/

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

Active awards, July 1, 2016–June 30, 2017

Adamec, Jiri Biochemistry Genetic & Genomic Approaches to Understanding	Adamec, .
Long-Distance Transport and Carbon Partitioning in Plants \$399,249	
Adenwalla, Shireen Nebraska Center for Materials and Nanoscience	Adenwalla
Strain Driven Dynamics of Phase Transitions in Oxide Antiferromagnets	
\$550,000	Binek, Ch
Ahn, Changbum Durham School of Architectural Engineering and Construction	Ahn, Chan
Revealing Hidden Safety Hazards Using Workers' Collective Bodily and Behavioral Response Patterns \$427,999	\$427,999 Stentz, Te
Albrecht, Julie Nutrition and Health Sciences Growing Healthy Kids through Healthy Communities \$947,093 USDA-AFRI Bergman, Gary Southeast Research and Extension Center	\$947,093
Food Safety for Diverse Families with Young Children \$554,302	
Alexander, Dennis *Instrumentation for Understanding and Controlling Surface Chemistry during Femtosecond Laser Surface Processing \$961,830	*Inst Ch \$961,830 Ianno, No
*Tunable Laser Source for Advanced Surface Functionalization \$480,616	

Functionalized Metallic Surfaces for Enhanced Heat Transfer, Drag Reduction, and Novel Power Sources \$468,213
Alfano, James Plant Pathology/
Center for Plant Science Innovation EAGER: The Involvement of Blue Light in Plant Immunity \$264,899
The <i>Pseudomonas Syringae</i> Type 3 Translocon and the Injection of Bacterial Effectors across the Plant Cell Wall and Plasma Membrane \$499,778
Allen, Craig *Global Change, Vulnerability and Resilience: Management Options for an Uncertain Future \$771,345
Monitoring, Mapping, Risk Assessment and Management of Invasive Species in Nebraska \$350,000
Amundsen, Keenan Buffalograss Breeding, Evaluation and Management for Golf Course \$450,000
Atkin, Audrey Mechanisms that Protect Transcripts from Nonsense-Mediated mRNA Decay \$620,647

^{*} Indicates new in 2016–2017

Avalos, George	Mathematics	Barletta, Raul	Veterinary Medicir
Analysis and Contro	l Theory for	Genome Wide A	analysis of M. Paratub
Moving Boundary and Nor in Interactive Partial Diffe		\$499,981	
\$328,901	NSF	Bartelt-Hunt, Shanno	n
Toundykov, Daniel	Mathematics	*REU Site: Sustainal	oility of Horizontal Civ
Analysis and Control of Evolutionary \$292,773		Jones, Elizabeth	Nebr
Toundykov, Daniel			
Avramov, Luchezar	Mathematics	, ,	
Cohomology over Comi			
Structure and App			Nebr
\$458,919		occoman, Joshua	
, , , , , , , , , , , , , , , , , , , 		WSC Category 1: I	nfluence of Climate ar
Avramova, Zoya	Biological Sciences		water Contamination
Memory of a Di			
Training Arabidopsis Plants to Witl		Gates, John	Earth
\$763,929		Li, Xu	
Riethoven, Jean-Jack	Center for Biotechnology	, ,	
	Transfer of Electronic egy		
Baenziger, P. Stephen	Agronomy and Horticulture		
*Developing the Tools and Germ	place for Hybrid Whoat		Community and
\$975,000		Thompson, Eric	B
Banerjee, Simanti	Agricultural Economics	Bashford, Gregory	
• •		*REU Site: U	ndergraduate Resear
The Impacts of Conservation Auction Performance and C			vices at the University
Evidence from Lab and Arte			
\$498,641		Nelson, Carl	Mechani
Ψ 13 0,0 11		Nouralas	gical Consequences of
Barker, Bradley	4-H Youth Development		iring Cardiopulmonar
Nebraska Wearable		\$278.242	
\$984,189	3	Ψ2/0,242	
Keshwani, Jennifer		Basolo, Alexandra	
Krehbiel, Michelle	4-H Youth Development	•	onsistency of Behavio
Nelson, Carl Mech			oss Different Selective
Nugent Gwen Ne	ebraska Center for Research on		
Childre	en, Youth, Families and Schools	4012,550	
Weiss, Wendy Textiles, Mer	chandising and Fashion Design	Batelaan, Herman	
		vaiciaali, lici illäli	Coherent Electron Co
		\$308 112	Concretit Liection C

Barletta, Raul Veterinary Medicine and Biomedical Sciences Genome Wide Analysis of M. Paratuberculosis Pathogenesis \$499,981
Bartelt-Hunt, Shannon *REU Site: Sustainability of Horizontal Civil Networks in Rural Areas \$352,698 NSF Jones, Elizabeth Nebraska Transportation Center Kim, Yong Rak Civil Engineering Li, Xu Civil Engineering Li, Yusong Civil Engineering Linzell, Daniel Civil Engineering Sangster, John Civil Engineering Steelman, Joshua Nebraska Transportation Center
WSC Category 1: Influence of Climate and Agricultural Clustering on Groundwater Contamination by Trace Organics \$599,663
Bashford, Gregory *REU Site: Undergraduate Research Opportunities in Biomedical Devices at the University of Nebraska-Lincoln \$364,006
Neurological Consequences of Emboli Burden during Cardiopulmonary Bypass \$278,242Gerber Foundation
Basolo, Alexandra The Consistency of Behavioral Plasticity Across Different Selective Contexts \$512,998
Batelaan, Herman Coherent Electron Control \$398,442

Becker, Donald Biochemistry/ Nebraska Center for Redox Biology	Binek, Christian Physics and Astronomy/Nebraska Center for Materials and Nanoscience
*Coordination of Functions by Proline Metabolic Proteins	*Magnetoelectrics and Spinorbitronics in
\$273,218NIH-NIGMS through University of Missouri-Columbia	Topological Heterostructures and Superlattices
REU Site: Training in Redox Biology	\$516,500
\$262,914NSF	oministry of damental, 2007 ingolds
Stone, JulieBiochemistry/Center for Plant Science Innovation	Blanco, Humberto Agronomy and Horticulture
Belashchenko, Kirill Physics and Astronomy	*Assessing Innovative Strategies to Maximize Cover Crop Yields
First-Principles Studies of Relativistic	for Biofuel across Precipitation Gradient \$500,000
Spin Interactions and Torques	Creech, Cody Panhandle Research and Extension Center
\$258,646NSF	Elmore, Roger
Belli, Robert Psychology/Gallup Research Center	Koehler-Cole, Katja Agronomy and Horticulture
Central Plains Census Research Data Center	Parsons, Jay Agricultural Economics
\$300,000NSF	Ruis, Sabrina
Anderson, John Economics Thompson, Eric Bureau of Business Research	Yang, Haishun Agronomy and Horticulture
Benson, John Natural Resources	Blum, Paul Chromatin Modification in Archaea and
*Assessment of Adult Female and Neonatal Mule Deer (<i>Odocoileus hemionus</i>) Survival, Movements and Habitat Use in Nebraska	Its Role in Gene Expression
\$504,000Nebraska Game and Parks Commission	\$379,675NSF
	Van Cott, Kevin Chemical and Biomolecular Engineering
Berkowitz, David Chemistry	REU Site: Integrated Development of Bioenergy Systems
New Approaches to Catalyst Screening and Development \$573,522NSF	\$416,464NSF Cerutti, Heriberto
,,	Center for Plant Science Innovation
Bianchini Huebner, Andreia Food Science and Technology	
*Alliance for Food Security through Reduction of Postharvest Loss and Food Waste	Bobaru, Florin Mechanical & Materials Engineering
\$707,273 USAID through Kansas State University	Stress Corrosion Cracking: The Importance of Damage Evolution in the Layer Affected by Corrosion
Flores, RolandoFood Science and Technology	\$596,188 DoD-ONR
Hallen-Adams, Heather Food Science and Technology Weller, Curtis Biological Systems Engineering	Tan, Li Mechanical & Materials Engineering
,	Bovaird, James Educational Psychology/Nebraska Center for
Billesbach, David Biological Systems Engineering	Research on Children, Youth, Families and Schools
The AmeriFlux Network Management Project \$419,578DOE through	*Efficacy of the START-Play Program for
University of California-Berkeley National Lab	Infants with Neuromotor Disorders \$355,392ED-IES through Duquesne University
CCD Cook on Decised	Sheridan, Susan Educational Psychology/Nebraska Center for
SGP-Carbon Project \$449,800 University of California-Berkeley National Lab	Research on Children, Youth, Families and Schools

Brown, Deborah	Biological Sciences/	Cahoon, Edgar Biochemistry/	
*N D	Nebraska Center for Virology	Center for Plant Science Innovati	
	arch Network in Functional Genomics	Overcoming Metabolic Bottlenecks for	
	NIH-NIGMS through UNMC	Enhanced Vitamin E Production in Crop Plants	
wood, Charles	Biological Sciences/Biochemistry/ Nebraska Center for Virology	\$490,000 USDA-NIFA	
		Sustainable Biofuel from the Great Plains to the Semi-Arid West:	
Buan Murphy, Nicole	Biochemistry	Improved Germplasm for Camelina Oilseed	
EAGER: C	oupling Electron Transport and	\$373,976	
	lism using Biological RoutersNSF	Integrating the Regulatory Components of Sphingolipid Biosynthesis in Arabidopsis	
Book I also Wallana	Protected Burney Burney Comment For Street	\$686,815NSF	
Buchholz, Wallace	Biological Process Development Facility *Cyber-Bio-Security:	Stone, JulieBiochemistry	
Securing the Em	nerging Domain of Biomanufacturing	Center for Enhanced Camelina Oil (CECO)	
\$706,373	National Strategic Research Institute	\$901,129 DOE through Donald Danforth Plant Science Center	
	fer of the Ricin RTA (RVEc)	Carroll, John Natural Resources	
	stance Manufacturing Process	Wildlife Management and Human Dimensions	
\$291,964	DoD-Army Medical Research-JVAP through	\$255,000	
1-h C++	Battelle Memorial Institute Biological Process Development Facility	Nebraska Game and Parks Commission	
Johnson, Scott	Biological Process Development Facility		
Manufa	cture of Recombinant Vaccine	Outdoor U Program	
	Clinical Trial and Toxicity Testing	\$262,381Nebraska Game and Parks Commission	
	National Strategic Research Institute		
	Biological Process Development Facility	Centurion, Martin *OP: Diffractive Imaging of Complex Isolated Molecules	
Dulling Danica	Dublic Delicy Center	\$345,704	
Bulling, Denise	Public Policy Center	\$343,704	
	anning Using Community Threat dentification and Risk Assessment	Ultrafast Electron Diffraction from Aligned Molecules	
	DOC-NOAA	\$451,097DOE	
	Public Policy Center		
	Natural Resources	Cerutti, Heriberto Biological Sciences/	
	Natural Resources	Geruffi, Herioerfo Biological Sciences/ Center for Plant Science Innovation	
	Natural Resources	Mechanisms of Small RNA-Mediated Translation Repression	
		in Chlamydomonas	
	Public Policy Center	\$560,000NSF	
Stiles, Crystal	Natural Resources	4333,000	
	Natural Resources	Cheung, Chin Li Chemistry	
,		Defect Chemistry of Metal Oxides for	
Developing Nebrask	a's Homeland Security Planning Capacity	Catalytic Reactive Oxygen Species Generation	
\$300,000 DHS t	nrough Nebraska Military Department-NEMA	\$406,283NSF	
	Psychology/Public Policy Center	ΨΤΟΟ,ΖΟΟΙΝΟΙ	
Speck, Kathryn	Public Policy Center		
		I .	

Chizinski, Christopher Comprehensive Evaluation of the \$288,371	DOI-FWS through ska Game and Parks CommissionNatural Resources	for the Ide \$495,318	Food Science and Technology/Statistics D: Statistical Ensembles ntification of Bacterial Genomes
	omputer Science and Engineering or of Constraint Propagation and Synthesizing Constraints	High Yielding C4	Agronomy and Horticulture/ Center for Plant Science Innovation/ Center for Biotechnology gies to Solve the Water Use Problem of Bioenergy and Bioproduct Feedstocks
Novel Mechanisms of Plant N \$660,788	Mitochondrial DNA Repair		rce for Functional Genomics to Soybean Genetics and Breeding
*Epigenetic Regulation of Obesi Red Raspberry Ellagic Acid and its the Urol \$469,949 Ramer-Tait, Amanda	Microbiota-derived Metabolites, ithins USDA-NIFA	\$267,240	NSF through University of Georgia lacement of Fishmeal and Fish Oil sla Rivoliana (Kampachi) Diet Soy-Based Protein and OilUnited Soybean Board/Smith/Bucklin
Ciobanu, Daniel *Investigation of Host Genetic Role \$459,200	DSDA-NIFA Statistics Statistics Nebraska Center for Virology Physics and Astronomy at a Distance NSF Learning and Teacher Education/ Center for Science, Mathematics and Computer Education Physics and Astronomy	for Re \$332,333	m: Regression Testing Techniques eal-World Software Systems

Couch, Brian	Biological Sciences	CSR: Small: Ad
	e Learners by Enabling Instructors to	on a
Monitor and Enha	ance Student Buy-in and Utilization of based Instructional Strategies	\$390,000
\$299,920	NSF	DiRusso, Concetta
Brassil, Chad	Biological Sciences	Activ
Impact of the Sur	mmer Institution on Faculty Teaching	\$550,000
	d Student Achievement	Cerny, Ronald
\$393,068	NSF through University of Colorado	
0 111 0 111		Dodd, Michael
Cress Nipper, Cynthia	Special Education and	Ta
CTTD. Infant Accord	Communication Disorders ent of Early Communication Risk Factors:	\$581,696
	The ECBS	Hoffman, Lesa
\$0UU,123NIH-N	NIDCD through Brookes Publishing Company	Dodds, Eric
Cui, Bai	Mechanical & Materials Engineering	Gas-Phase Structi
	Toughening Structural Ceramics by	\$360,000
Thermal En	ngineered Laser Shock Peening	Dombrowski, Kirk
\$348,336	NSF	REL
	Electrical and Computer Engineering ebraska Center for Energy Sciences Research	Sc
Nastasi, Michael Ne	ebraska Ceriter for Effergy Sciences Research	\$349,996
Cupp, Andrea	Animal Science	Anderson-Knott, Mi
	onsequences of Androgen Excess	Dowben, Peter
	on Oocyte Quality	DOWNGII, I GIGI
	USDA-NIFA Animal Science	*Spin and Di
vvood, Jenniner	Animal Science	\$442,944
DeLong, John	Biological Sciences	*Doped Boron
	anding the Consequences of	Novel Class of
	lution in Ecological Communities James S. McDonnell Foundation	\$363,250
φ45U,UUU	James 3. MicDonnen roundation	Voltage-Control
Detweiler, Carrick	Computer Science and Engineering	\$899,830
	At the Water's Edge:	
	ptimization of Robotic Sensing Systems	Binek, Christian
	USDA-NIFA	Du Hannahaii ii
Braaley, Justin	Computer Science and Engineering	Du, Liangcheng
(Co-Aerial-Ecologist:	Discovering \$838,922
Robotic Water	Sampling and Sensing in the Wild	Ţ 555,522 · · · · · · · ·
	USDA-NIFA	Duncan, Daniel
Kurain /\m\/		
Flhaum Sahastian		
Elbaum, Sebastian	Computer Science and EngineeringJournalism and Mass Communications	\$750,000

CSR: Small: Adaptive and Autonomous Energy Management on a Sensor Network Using Aerial Robots
\$390,000NSF
DiRusso, Concetta Biochemistry Activators of Lipid Accumulation in Algae
\$550,000
Dodd, Michael Psychology Task Switching and Visual Behavior
\$581,696
Dodds, EricChemistryGas-Phase Structural Analysis of Metal Cationized Carbohydrates\$360,000
Dombrowski, Kirk Sociology
REU Site: Social Network Analysis for Solving Minority Health Disparities
\$349,996NSF
Anderson-Knott, Mindy Statistics
Anderson-Knott, Mindy
Anderson-Knott, Mindy Statistics Dowben, Peter Physics and Astronomy/ Nebraska Center for Materials and Nanoscience
Anderson-Knott, Mindy Statistics Dowben, Peter Physics and Astronomy/ Nebraska Genter for Materials and Nanoscience *Spin and Dipole Ordering at Molecular Film Interfaces \$442,944
Anderson-Knott, Mindy
Anderson-Knott, Mindy Statistics Dowben, Peter Physics and Astronomy/ Nebraska Center for Materials and Nanoscience *Spin and Dipole Ordering at Molecular Film Interfaces \$442,944
Anderson-Knott, Mindy Statistics Dowben, Peter Physics and Astronomy/ Nebraska Center for Materials and Nanoscience *Spin and Dipole Ordering at Molecular Film Interfaces \$442,944

Duppong Hurley, Kristin Special Education and Communication Disorders University of Nebraska's Post-Doctoral Program in Emotional Disturbance
\$643,776
Randomized Clinical Trial of the Boys Town In-Home Program \$706,989Father Flanagan's Boys' Home
Dussault, Patrick Chemistry
A New Paradigm for Ether Synthesis \$390,000NSF
Effect of Composition and Particle Size in Oxidation Catalysis by Metal Oxide Solid Solution Nanoparticles \$560,358
Dvorak, Bruce Water Innovation Network for Sustainable Small Systems (WINSSS) \$338,160 EPA through University of Massachusetts-Amherst Lai, Rebecca Chemistry Ray, Chittaranjan
Dwyer, Matthew Computer Science and Engineering
SHF: Small: Measurable Program Analysis \$507,653NSF
Dzenis, Yuris Mechanical & Materials Engineering Bulk Nanostructured Materials for Navy Applications
\$702,271 DoD-ONR
Biomimetic Nanostructured Materials Based on Synthetic Spider Silk \$300,000
GOALI: Nanomanufacturing of Ultrahigh-Performance Continuous Carbon Nanofibers and Assemblies \$299,947

	omputer Science and Engineering
SHF: Small: Testing in the Press \$425,000	NSF
SHF: Small: Solving the Se in Large Repositories with L \$449,033	ightweight Specifications
*Assessing Segment-scale Co Slow-spreading Ric \$259,150	lge Morphology
Enders, Axel	Physics and Astronomy
UNO-NASA Space G Neutron Voltaics for D \$546,569	eep Space Missions NASA through UNO
Ianno, Natale Elec	ctrical and Computer Engineering
Erickson, Galen *Evaluation of Algal Biomass \$284,091	Evonik Industries Medicine and Biomedical Sciences Medicine and Biomedical Sciences
Eskridge, Kent	Statistics
GAANN Fellowship Pro	
Espy, Kimberly Neurocognitive Mecha	Psychology nisms of Developing
Executive Control and Risk \$415,250 Garza, John Rese James, Tiffany Rese Molfese, Dennis Nelson, Jennifer Rese	s for ADHD in PreschoolNIH-NIMH earch and Economic Development earch and Economic DevelopmentPsychology

Faller, Ronald Midwest Roadside Safety Facility	Development of Concrete Bridge Rails, Median Barriers,
*MASH TL-4 Steel-tube Bridge Rail and Guardrail Transition	and Roadside Barriers for Test Level 5 of
\$926,851	AASHTO MASH in Manitoba, Canada
	\$297,890
Nebraska Department of Transportation	Infrastructure & Transportation
Bielenberg, RobertMidwest Roadside Safety Facility	
Rosenbaugh, ScottMidwest Roadside Safety Facility	Rosenbaugh, ScottMidwest Roadside Safety Facility
Schmidt, Jennifer Midwest Roadside Safety Facility	Schmidt, Jennifer Midwest Roadside Safety Facility
*Test Level 3 Dynamic Testing and Evaluation of	Phase II Conceptual Development of an Impact
MnDOT's Noise Wall System under AASHTO MASH 2016	Attenuation System for Intersecting Roadways
\$305,115 DOT-MN DOT through	\$256,184DOT-FHWA through
Nebraska Department of Transportation	Nebraska Department of Transportation
Holloway, JamesMidwest Roadside Safety Facility	Bielenberg, RobertMidwest Roadside Safety Facility
Lechtenberg, KarlaMidwest Roadside Safety Facility	Reid, John Mechanical & Materials Engineering
	Reid, 30th Internation & Waterials Engineering
Rosenbaugh, ScottMidwest Roadside Safety Facility	Adaptation of the SAFER Barrier
Schmidt, Jennifer Midwest Roadside Safety Facility	
	for Roadside and Median Applications
*Dynamic Testing and Evaluation of a New York DOT	\$990,000 Nebraska Department of Transportation
Prototype Box Beam Guardrail End Terminal System	Reid, John Mechanical & Materials Engineering
under AASHTO MASH 2016 TL-3 Guidelines	
\$265,250 New York State Department of Transportation	Fernando, Samodha Animal Science
through Nebraska Department of Transportation	*Improving Air Quality by Reducing Methane Emissions from Cattle
Lechtenberg, KarlaMidwest Roadside Safety Facility	\$348,298Nebraska Environmental Trust
Reid, John Mechanical & Materials Engineering	Erickson, Galen
Schmidt, Jennifer Midwest Roadside Safety Facility	Kononoff, Paul
osimilar, sommor	Kononon, radiAnima Science
Evaluation of New Jersey TCB Performance under MASH TL-3	Dietary Intervention and Microbial Community Analysis
\$702,369DOT-FHWA through	
Nebraska Department of Transportation	toward Methane Mitigation
Bielenberg, RobertMidwest Roadside Safety Facility	\$749,941 USDA-AFRI
	Erickson, Galen
Lechtenberg, KarlaMidwest Roadside Safety Facility	Jenkins, Karla Panhandle Research and Extension Center
Reid, John Mechanical & Materials Engineering	Klopfenstein, TerryAnimal Science
Rosenbaum, ScottMidwest Roadside Safety Facility	Luebbe, Matthew Panhandle Research and Extension Center
	Rasby, Richard
Guidelines for Placement of Breakaway Light Poles	
behind Midwest Guardrail System	Fielding, Christopher Earth and Atmospheric Sciences
\$262,603DOT-FHWA through	ELT Collaborative Research:
Nebraska Department of Transportation	
Bielenberg, RobertMidwest Roadside Safety Facility	Causes and Effects of the Permian-Triassic Biotic Crisis
Reid, John Mechanical & Materials Engineering	Inferred from Continental Margin Sections and Modeling
The state of the s	\$400,157NSF
Iowa DOT Combination Bridge Separation	Frank, Tracy Earth and Atmospheric Sciences
Barrier with Bicycle Railing	
\$254,445DOT-FHWA through	
Nebraska Department of Transportation	
Bielenberg, RobertMidwest Roadside Safety Facility	

Reid, John Mechanical & Materials Engineering Rosenbaugh, ScottMidwest Roadside Safety Facility

Fontaine, Joseph	Natural Resources	Fuchs, Brian	Natural Resources
	onstraints on Bobwhite Quail s along Their Northern Extent		nation Services for Agriculture ss the United States
\$424,913		\$827,501	USDA-OCE
	Nebraska Game and Parks Commission		Natural Resources
Bachman, Gwendolyn	Biological Sciences		
•	cts of Habitat Incentive Programs and		
	Programs on Pheasant Population	Fuchs, Matthias	Physics and Astronomy
	nics and Hunter HarvestNebraska Game and Parks Commission		llinear X-Ray Optics
		\$594,760	DOE
Forbes, Cory	Natural Resources/	Gamon, John	Natural Resources
	Robert B. Daugherty Water for Food Institute	Ling Season Ling No.	son Length and Productivity across the vel Satellite Indices and a Ground Sensor
IUSE: Foste	ring Undergraduate Students'		NASA
Disciplinary	y Learning and Water Literacy		Biological Systems Engineering
	NSFAgricultural Economics/		
	Robert B. Daugherty Water for Food Institute	Gardner, Scott	
Franz, Trenton			Biological Sciences
F	Robert B. Daugherty Water for Food Institute		ry: Securing and Digitizing Data for Specimens in the Manter Laboratory
Maralalia a Hualaal	i- Ct i- Flt C-i		NSF
	ogic Systems in Elementary Science		University of Nebraska State Museum
Francisco, Joseph	Chemistry	Gaussoin, Roch	Agronomy and Horticulture
	try on Cloud and Aerosol Surfaces		lity Protein Popcorn as a Non-GMO
	NSF		nhanced Nutritional Quality, ume and Flavor Profile
Franco Coatle Lies	Nutrition and Hoolth Ocionose		ConAgra
Franzen-Castle, Lisa	Nutrition and Health Sciences gram to Promote Culinary Skills and		Agronomy and Horticulture
	leals for Obesity Prevention		Agronomy and Horticulture
	USDA-NIFA through University of Maine	Rose, Devin	Food Science and Technology
Krehbiel, Michelle	Extension	Gay, Timothy	Physics and Astronomy
	Voices for Food		Spin Optical Polarimetry (AESOP)
\$618 314 LISDA-	NIFA through South Dakota State University		NSF
	Northeast Research and Extension Center		
Sale, Brenda	Northeast Research and Extension Center	Polari	zed Electron PhysicsNSF
		\$642,/14	INSF
Fritz, Sherilyn	Earth and Atmospheric Sciences/ Biological Sciences		
	Dynamics of Mountains, Landscapes,		
	the Distribution and Generation of		
	of the Amazon/Andean Forest		

Ge, Yufeng *VicNIR-Base	Biological Systems Engineering and Multi-sensing Penetrometer for	Grassini, Patricio	Agronomy and Horticulture Soybean Production Systems
in situ High-	resolution Depth Sensing of Soils		North-Central USA
	USDA-NIFA		North Central Soybean Research Program
	Transitioning to the Next-generation ant Phenotyping Robots	Griep, Mark	Chemistry
\$285,000 Pitla, Santosh	USDA-NIFA Biological Systems Engineering	\$749,285	e Chemistry CurriculumNSF
	Biological Systems Engineering		Experiences for Undergraduates bly at the University of Nebraska
Imaging :	Multispectral Laser 3D Ranging and System for Plant Phenotyping		NSF
Walia, Harkamal	NSFAgronomy and HorticultureComputer Science and Engineering	Grosskopf, Kevin	Durham School of Architectural Engineering and Construction Adjustment Assistance Grant
			DOL through Central Community College
Gibson, Robert	Biological Sciences		Management
	tegrative Ecology and Evolution		Management
\$544,420	ED		Durham School of Architectural
			Engineering and Construction
Gogos, George	Mechanical & Materials Engineering	Stentz, Terry	Durham School of Architectural
	nt Biomimetic Micro/Nanostructured		Engineering and Construction
for The	ntosecond Laser Surface Processing rmal Management Systems	Torraco, Richard	Educational Administration
		Gruverman, Alexei	Physics and Astronomy/
	Electrical and Computer Engineering Electrical and Computer Engineering		ska Center for Materials and Nanoscience
	Electrical and Computer Engineering		eering for Novel Nanoelectronics
Ndao, Sidy	Mechanical & Materials Engineering Mechanical & Materials Engineering	\$338,422	NSF
Siliela, Jeiliey	Wechanical & Materials Engineering	Guo, Jiantao	Chemistry
Golick, Douglas	Entomology	Mechanist	tic Study of Cellulosome
	oitat: Nebraska Communities Supporting	through Rep	rogramming Its Assembly
Pollinators a	and Landscape Diversity through Waterwise Plant Habitats		NSF Chemistry
	Nebraska Environmental Trust		
	Nebraska State Forest Service		Agronomy and Horticulture search and Extension Skills of
Goosby, Bridget	Sociology		egrated Agronomic Systems
	ansmission of Race Disparities in Health		USDA-NIFA
	NIH-NICHD	Elmore, Roger	Agronomy and Horticulture Agronomy and Horticulture
Graef, George	Agronomy and Horticulture	Howell Smith, Michelle	Nebraska Center for Research on Children, Youth, Families and Schools
	ng and Genetic Studies for Nebraska	Radfagra Daren	Agronomy and Horticulture
	Nebraska Soybean Board	Neureum, Duren	Agronomy and norticulture

Hage, David	Chemistry		: Sub-Ice Investigation of Marine
Instrumentatior Label-Free and Rapi Ultrathin-Layer Imag		\$383,297	Planetary-Analog Ecosystems NASA through University of Texas at Austin
	NSF	Hauptman, Kelli Court Improv	Center on Children, Families and the Law ement Project Infant/Toddler Program
Chromatographic Auton \$809,387	nation of Immunoassays NIH-NIGMS	\$655,843	The Sherwood Foundation® Center on Children, Families and the Law
*Mechanically Durable	ectrical and Computer Engineering e and Thermally Stable		Natural Resources ught Information Services for
Fiber Bragg Gratings for \$300,872		\$839,442	ulture across the United StatesUSDA-OCENatural Resources
Femtosecond Laser System for \$329,117			
Adaptive and Sensitive Fibe Detection of Acoustic Emissio \$300,810	ns in Vibrational Environment	\$693,696 Bathke, Deborah	k Management for the United States DOC-NOAA through University of Oklahoma Earth and Atmospheric Sciences Natural Resources
Multiplexed Fiber-Ring I Sensors for Structure	al Health Monitoring	Knutson, Cody Svoboda, Mark	
\$300,270	DoD-ONR	Heaton, Ruth	Teaching, Learning and Teacher Education/
Harris, Steven	Plant Pathology/ Genter for Plant Science Innovation	induion, num	Nebraska Center for Research on
Integrating Mult Understand Gene R	tiple Analyses to egulatory Networks		Children, Youth, Families and Schools/ Center for Science, Mathematics and Computer Education
\$496,000	NSF	# CC2 227	Math Early On II
Harwood, David	Earth and Atmospheric Sciences/ Antarctic Drilling Program	Leeper Miller, Jennifer	Buffett Early Childhood FundChild, Youth and Family StudiesChild, Youth and Family Studies/
Integrated Study of Hydrologically Active S	s Scientific Access (SALSA): f Carbon Cycling in ubglacial Environments	,	Nebraska Center for Research on Children, Youth, Families and Schools/ Center for Science, Mathematics
\$299,175	NSF neering/Antarctic Drilling Program		and Computer Education
SALSA Project Hot Water		Hebert, Michael	Special Education and Communication Disorders
WISSARD Main Drill and Parts o \$356,894 McManis, James	NSF through Dartmouth College	of Strugglin Exposi	nproving the Reading Comprehension ig Readers in the 4th Grade through tory Text Structure and Writing
	chnology for Subglacial Studies d West Antarctic Ice Sheet NSF	\$399,073 Nelson, J. Ron	EDSpecial Education and Communication Disorders

	Biological Sciences proach to Complex Animal Signaling		Mechanical & Materials Engineering t, Efficient Next-Generation Solar Cells
\$645,000	NSF		ng Clean Energy Revolution
		\$654,000	NSF through Brown University
	the Neural Integration of		Physics and Astronomy
	nation in the Brain of an Arthropod	Zeng, Xiao	Chemistry
\$285,215	NSF		
			opic and Nanoscopic Studies of the
Heng-Moss, Tiffany	Entomology		or of Organic Perovskite Solar Cells
Mitigating Insect Herbivory	of Warm-Season Bioenergy Grasses – head of the Curve	\$480,000	NSFPhysics and Astronomy
\$277,435	USDA-ARS		
Bradshaw, Jeffrey	Entomology Agronomy and Horticulture	as Low-Cost, Unco	red Organic Field Effect Transistor oled, Highly Sensitive Solid-State stor for Radiation Sensing
Hermiller, Susan	Mathematics	\$450,000	NSF
	ry of Cayley Graphs for Groups	Poom Tomporature One	eration Single-Photon Detectors Based
	NSF	on Nanoparticle Super-	Gated Organic Field Effect TransistorsNSF
Holding, David	Agronomy and Horticulture	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Note of Francisco	onal Genomics Platform	Hunt, Thomas	Northeast Research and Extension Center
			Insect Resistance Management Plans for
	nel Maturation and Protein Quality		Bacillus Thuringiensis Toxin Resistance
	USDA-NIFA	Delaying the Onset of E	Bean Cutworm Populations
Znang, Cni	Biological Sciences		USDA-NIFA
			est Central Research and Extension Center
Hong, Xia	Physics and Astronomy/	retersori, Julie vve	est Central Research and Extension Center
	a Center for Materials and Nanoscience		
	Control of Novel Electronic States in	Hunt, William	Anthropology
Layered Two-	dimensional Materials		ıltidisciplinary Exploratory Study
\$750,262			Baranof Island, Southeast Alaska
			NSF
Hope, Debra	Psychology	Hartley, Ralph	Anthropology
	p to Identify Intervention Targets		
	Services to Transgender Individuals	Hutkins, Robert	Food Science and Technology
	erserved Areas		Novel Synbiotic to Modulate the
	NIH-NIMH	Human Gut Microbiota	and Improve Health in Obese Adults
4000,			USDA-NIFA
Houston Adom	Forth and Atmospheric Colonese		Food Science and Technology
Houston, Adam	Earth and Atmospheric Sciences		
	-Convective Precipitation Feedbacks	lanno, Natale	Electrical and Computer Engineering
	pisture Active Passive	DELL Cita. Dass	Evacriance for Undergraduates in
	NASA through The Ohio State University	Nanohyb	Experience for Undergraduates in rid Functional Materials
	vation of Severe Local Storms	\$306,032	NSF
Using	Aerial Robots		
\$425,652	NSF		

Ihlo, Tanya	Nebraska Center for Research on	Josiah, Scott	Nebraska State Forest Service			
	Children, Youth, Families and Schools	A 570 C 54	*Community Adjacent Fuels Award			
	ebraska Multi-Tiered System of	\$5/2,654	USDA-FS			
	ort Implementation Support Team					
\$600,270	ED through Nebraska Department of Education		Protecting, Rehabilitating and Restoring			
		#000 CC7	Nebraska's Pine Forest Ecosystems			
Irmak, Suat	Biological Systems Engineering	\$989,667	Nebraska Environmental Trust			
	ntinuous Evapotranspiration and		ARC C T C AL FILLI			
Consu	mptive Water Use Measurements of		ous Mitigation Treatments on Non-Federal Lands			
Various Cro	opping Systems and Natural Ecosystems	\$431,970	USDA-FS			
\$355,956	Nebraska Environmental Trust		C IC. II. FI			
		'	Conservation and Stewardship Education			
Impact of Rotati	onal Cover Crops on Soil Quality Parameters,	¢205.701	for Nebraska Educators and YouthUSDA-FS			
	ding Capacity, Soil-Water Retention Curves,	\$293,701				
	ield-Scale Water Balance Dynamics					
	USDA-NRCS	Kelling, Clayto				
	a Biological Systems Engineering		ng One Health Best Practices for Range Bison Herds			
	Biological Systems Engineering	\$400,000	DHHS-CDC-NIOSH			
	Biological Systems Engineering					
	Biological Systems Engineering	Khan, Bilal	Sociology			
Skaggs, Kari	Biological Systems Engineering	*Applying Behavioral Ecological Network Models to				
		Enhance	e Distributed Spectrum Access in Cognitive Radio			
	Practices on Corn and Soybean Transpiration,	\$296,969	NSF			
	Dynamics, and Crop Water Productivity	Dombrowski, K	KirkSociology			
	Nebraska Environmental Trust					
	Biological Systems Engineering	Kilic, Ayse	Civil Engineering/Natural Resources			
Gates, John	Earth and Atmospheric Sciences		Developing and Enhancing Landsat Derived			
			potranspiration and Surface Energy Products			
lyengar, Srikanth	Mathematics		DOI-GS through University of Idaho			
	gebra: Homological and Homotopical Aspects		3			
\$435,785	NSF		CPNRD Mapping Evapotranspiration			
			with High Resolution Satellite Data			
Jackson-Ziems, Tami	ra Plant Pathology	\$585,832	Central Platte NRD			
Uncovering th	ne Genetic Basis of Tolerance to Goss's Wilt					
·	in North American Maize	Kim, Yong Rak	Civil Engineering/			
\$293,431	Dow AgroSciences	inin, rong nan	Nebraska Transportation Center			
		*Identification	n and Modeling of Interphase in Cementitious Mixtures			
Jhala, Amitkumar	Agronomy and Horticulture		rated Experimental-Computational Multiscale Approach			
	iene Flow from Acetolactate Synthase-Inhibiting		NSF			
	e-Resistant Sorghum to Johnsongrass					
	E. I. Dupont		Nebraska Transportation Center			
	Agronomy and Horticulture		. to 2. do to 4. do to 1. do t			
	g. zhong ana norasada					

Knoche, Lisa	Nebraska Center for Research on Children, Youth, Families and Schools			
Getting Ready 0	-3 (GR03): Supporting the Development of			
Infants/Toddlers through an Integrated Parent-Teacher				
Re	elationship-Based Approach			
\$999,208	DHHS-ACF			
Hawley, Leslie	Nebraska Center for Research on			
•	Children, Youth, Families and Schools			
Marvin, Christine	Special Education and			
	Communication Disorders/			
	Nebraska Center for Research on			

rch on chools on and rders/ Nebraska Center for Research on Children, Youth, Families and Schools Raikes, Helen Child, Youth and Family Studies/ Nebraska Center for Research on Children, Youth, Families and Schools Sheridan, Susan Nebraska Center for Research on Children, Youth, Families and Schools

Natural Resources Knutson, Cody *The Wind River Indian Reservation's Vulnerability to the

Impacts of Drought and the Development of Decision Tools to Support Drought Preparedness

\$253,547 DOI-GS through Colorado State University Svoboda, Mark......Natural Resources

Drought Impacts: Vulnerability Thresholds in Monitoring and Early Warning Research \$542.073NSF Svoboda, Mark Natural Resources

Transforming Climate Variability and Change Information for Cereal Crop Producers

\$284,468..... USDA-NIFA through Purdue University

Koelsch, Richard Extension

Nebraska Extension Implementation Program \$716,100 USDA-NIFA Bradshaw, Jeffrey Panhandle Research and Extension Center Cortinas, Manuel Veterinary Medicine and Biomedical Sciences Glewen, Keith Southeast Research and Extension Center Jhala, Amitkumar Agronomy and Horticulture Kamble, Shripat Entomology Ogg, Clyde Agronomy and Horticulture Wright, Robert Entomology

Korus, Jesse						Nati	ural Re	esources	
	_								

Korus, Jesse	Natural Resources
*Nebraska GeoCloud: An Inte	grated Bedrock Mapping and
Hydrogeologic Framework	Database and Map Viewer
\$264,014 Nebraska Departi	ment of Natural Resources through
	Lower Platte South NRD
Cameron, Kathleen	Natural Resources
Joeckel, Matt	Natural Resources
Kovalev, Alexey	Physics and Astronomy
Statistical Mechanics of Non-	Local Disordered Models with
Associated Quan	
\$255,000	NSF
Krehbiel, Michelle	Extension
Nebraska CYFAR Sustair	able Community Project
\$673,750	
Chai, Weiwen	Nutrition and Health Sciences
Fischer, Jean	Nutrition and Health Sciences
Franzen-Castle, Lisa	Nutrition and Health Sciences
Jones, Georgia	Nutrition and Health Sciences
Lackey, Susan	Natural Resources
Developing Hydrogeolo	gic Databases to Assist
Developing Hydrogeolo in Water Resourc	gic Databases to Assist es Management
Developing Hydrogeolo	gic Databases to Assist es Management
Developing Hydrogeolo in Water Resource \$539,100	gic Databases to Assist ees Management Lower Elkhorn NRD
Developing Hydrogeolo in Water Resourc	gic Databases to Assist es Management
Developing Hydrogeolo in Water Resource \$539,100	gic Databases to Assist ses ManagementLower Elkhorn NRD Biochemistry to Copper Metabolism
Developing Hydrogeolo in Water Resource \$539,100	gic Databases to Assist ses ManagementLower Elkhorn NRD Biochemistry to Copper Metabolism
Developing Hydrogeolo in Water Resource \$539,100	gic Databases to Assist ses ManagementLower Elkhorn NRD Biochemistry to Copper MetabolismNIH-NIDDK
Developing Hydrogeolo in Water Resource \$539,100	gic Databases to Assist ses ManagementLower Elkhorn NRD Biochemistry to Copper MetabolismNIH-NIDDKBiochemistry
Developing Hydrogeolo in Water Resource \$539,100	gic Databases to Assist les ManagementLower Elkhorn NRD Biochemistry to Copper MetabolismNIH-NIDDKBiochemistry ag, Learning and Teacher Education
Developing Hydrogeolo in Water Resource \$539,100	gic Databases to Assist les ManagementLower Elkhorn NRD Biochemistry to Copper MetabolismNIH-NIDDKBiochemistry ag, Learning and Teacher Education of Noyce Science Teachers
Developing Hydrogeolo in Water Resource \$539,100	gic Databases to Assist les ManagementLower Elkhorn NRD Biochemistry to Copper MetabolismNIH-NIDDKBiochemistry ag, Learning and Teacher Education of Noyce Science Teachers of Effective Teaching
Developing Hydrogeolo in Water Resource \$539,100	gic Databases to Assist les Management
Developing Hydrogeolo in Water Resource \$539,100	gic Databases to Assist Les Management Lower Elkhorn NRD Biochemistry to Copper Metabolism NIH-NIDDK Biochemistry 19, Learning and Teacher Education of Noyce Science Teachers of Effective Teaching Physics and Astronomy
Developing Hydrogeolo in Water Resource \$539,100	gic Databases to Assist Les Management Lower Elkhorn NRD Biochemistry to Copper Metabolism NIH-NIDDK Biochemistry 19, Learning and Teacher Education of Noyce Science Teachers of Effective Teaching Physics and Astronomy Earth and Atmospheric Sciences
Developing Hydrogeolo in Water Resource \$539,100	gic Databases to Assist Les Management Lower Elkhorn NRD Biochemistry to Copper Metabolism NIH-NIDDK Biochemistry 19, Learning and Teacher Education of Noyce Science Teachers of Effective Teaching Physics and Astronomy Earth and Atmospheric Sciences College of Agricultural Sciences
Developing Hydrogeolo in Water Resource \$539,100	gic Databases to Assist Les Management Lower Elkhorn NRD Biochemistry to Copper Metabolism NIH-NIDDK Biochemistry 19, Learning and Teacher Education of Noyce Science Teachers of Effective Teaching Physics and Astronomy Earth and Atmospheric Sciences

Lewis, Jim

Mathematics/Center for Science, Mathematics and Computer Education

Electrical and Computer Engineering

UNL-LPS Title I Mathematics Professional Development Partnership \$553.196 Lincoln Public Schools and Computer Education Smith, Wendy Center for Science, Mathematics and Computer Education Lewis. Ronald **Animal Science** *Understanding Parasite Resistance in Organic Livestock and Using a Systems Approach for Control \$291,478USDA-ARS Li, Qingsheng **Biological Sciences/** Nebraska Center for Virology Early Innate/IgA Anti-HIV/SIV Response in Exposed Uninfected \$417,151 NIH-NIAID through Wistar Institute Lodl, Kathleen Extension Living Soil: A New Exhibit at Raising Nebraska \$250,000 Nebraska Environmental Trust Loecke, Terrance **Natural Resources** Can Improving Predictions of Soil Oxygen Dynamics Increase Understanding of Greenhouse Gas Hotspots and Hot Moments \$699,254NSF Bernadt, Tonya Natural Resources Burgin, Amy Natural Resources Franz, Trenton Natural Resources Pathak, Tapan Natural Resources Lou. Mariorie Veterinary Medicine and Biomedical Sciences Protein-Thiol Mixed Disulfide in Cataractogenesis \$409,259NIH-NEI Wu, Hong Li Veterinary Medicine and Biomedical Sciences

\$499,916
*Next-generation Spray Drift Mitigation via Field-deployable, Real-time Weather Monitoring and Novel Spray Nozzle Control Technologies
Luck, Joe Biological Systems Engineering *Using Precision Technology in On-farm Field Trials to Enable Data-intensive Fertilizer Management \$513,798
Low-Temperature Epitaxy of Gallium Nitride Thin Films \$275,338NSF
Fast Growth of Large Diamond Crystals in Open Air \$275,195
Diamond Coating Adaptive to Substrate Materials Using a Diamond-Composite Buffer Layer \$793,342
Ultrafast Fiber Laser Sampling and Plasma-Enhanced Laser Induced Breakdown Spectroscopy to Combat WMD \$488,000
Vertically Aligned Carbon-Nanotubes Embedded in Ceramic Matrices for Hot Electrode Applications \$400,000
Using Laser-Assisted Mass Spectrometry in Open Air \$750,000

Lu, Yongfeng

Mamo, Martha	Agronomy and Horticulture	Miller, Nicholas	Entomology
	xt Generation of Agricultural and		erging Resistance to Cry3Bb1 Corn
	essionals through Experiential Learning		Monsanto
	n, Education and Extension		Entomology
	USDA-NIFA	Wichike, Edilec	
Keshwani Jennifer	Biological Systems Engineering	Minus Assis	Dlaus Dathalaus
Lamba David	Agronomy and Horticulture	Mitra, Amit	Plant Pathology
Las Danald	Agronomy and Harticulture		nic Beans for Broad-Spectrum Resistance
	Agronomy and Horticulture	aga	inst Fungal Diseases
Matkin, Gina	Agricultural Leadership,	\$250,000	inst Fungal DiseasesUSDA-NIFA
	Education and Communication	Steadman, James	Plant Pathology
	Agronomy and Horticulture		Panhandle Research and Extension Center
	Agronomy and Horticulture		
Speth, Carol	Agronomy and Horticulture	Maraau Dagia	Nutrition and Health Opingon
		Moreau, Regis	Nutrition and Health Sciences
Grazing Management I	Effect on Micro- and Macro-Scale Fate		Curcumin and Gut Inflammation
	nd Nitrogen in Rangelands		USDA-NIFA
	USDA-NIFA	Hage, David	Chemistry
Bradshaw Jeffrey	Panhandle Research and Extension Center		
	Statistics	Mower, Jeffrey	Agronomy and Horticulture
	Agronomy and Horticulture		enome Evolution using Plantaginaceae
Guretzky, John	Agronomy and Horticulture	\$594,190	NSF
Jenkins, Karla	Panhandle Research and Extension Center		
	Agronomy and Horticulture	Nastasi, Michael	Mechanical & Materials Engineering/
	est Central Research and Extension Center		raska Center for Energy Sciences Research
	Panhandle Research and Extension Center		ance and Mechanical Properties
Wingeyer, Ana	Agronomy and Horticulture		Ceramic/Metal Composites
Yang, Haishun	Agronomy and Horticulture	¢004 202	DOE
		\$994,292	bot
Markham, Jonathan	Biochemistry	Neele Ohrietenher	Disloying Dustoms Engineering
	ngolipids: New Targets for	Neale, Christopher	Biological Systems Engineering/
	g Cold-Tolerance in Crops		obert B. Daugherty Water for Food Institute
	g Cold-Tolerance in Crops USDA-NIFA	*Improving Varial	ole Rate Irrigation Efficiency using
		a Real-time Soil	Water Adaptive Control Model
Canoon, Eagar	Biochemistry	Informed by Sensors Do	eployed on Unmanned Aircraft Systems
			USDA-NIFA
McMahon, Patrice	Political Science		Biological Systems Engineering
	. Institute on Civic Engagement		Biological Systems Engineering
	DOS-BECA		Biological Systems Engineering
	Student Affairs		
		Weldt Weine	Biological Systems Engineering
r iistei, Duillieli	Communication Studies	vvoiat, vvayne	Biological Systems Engineering
Meinke, Lance	Entomology		
	nce Evolution to Pyrethroid Insecticides		
	Monsanto		
Miller, Nicholas	Entomology		

and Sing \$395,905 Farritor, Shane	Mechanical & Materials Engineering Notic Tools for Natural Orifice Gle-Incision SurgeryNIH-NIBIB Mechanical & Materials Engineering C Gait Rehabilitation Device	Better / in Latin Ame \$307,000	Earth and Atmospheric Sciences engthen Institutional Capacity to Assess Climate Impacts rica and the Caribbean (LAC) Inter-American Development Bank Earth and Atmospheric Sciences
\$394,911 REU Site: Undergro in Biomedical Devices at \$303,265	duate Research Opportunities the University of Nebraska–LincolnNSFBiological Systems Engineering	Molecular Stru and Re that Contri \$500,000	terinary Medicine and Biomedical Sciences uctures of Porcine Reproductive spiratory Virus (PRRSV) bute to Protective Immunity
and Co- \$339,115	Psychology/ Center for Brain, Biology and Behavior atrol in Adolescent Substance Use occurring Problems	Regulate Initiati \$465,000 Pérez, Lance Spatial Visualization \$ \$645,943	ding Molecular Factors that on of Porcine Embryo Elongation USDA-NIFA
MIL-STD 188-125-1 Co \$325,052	Durham School of Architectural Engineering and Construction of HPC+ Components for ompliant Shotcrete Dome Facility American Business Continuity Domes, Inc	Piepenbrink, Kurt *Structural E Clostridium d	Food Science and Technology Basis of Type IV Pilus-Induced lifficile Microcolony Formation
Renewable Feedsto	Chemistry -Propanediol Biosynthesis from cks through Enzyme Discovery	MCB EAGER: TelePathy: T Engineering of \$307,700	Computer Science and Engineering Felecommunication Systems Modeling and Cell Communication Pathways
\$699,584	Nebraska Center for Research on Children, Youth, Families and Schools ence Coaching: What, Why and How	Do Differences in R Characteristic \$344,521	Natural Resources Private Grazing Lands in Nebraska: Ranch Management and Landowner Staffect Conservation Impacts Staffect Game and Parks Commission Staffect Agronomy and Horticulture

Persistent Effects of Wind-Power Development on Prairie Grouse in Nebraska	Raikes, Helen Child, Youth and Family Studies
\$717,487	Evaluation of Early Steps to School Success
	\$679,993Save the Children
Brown, Mary	
rontaine, JosephNatural Resources	Rajca, Andrzej Chemistry
n ni	Nitrogen-Centered Radicals
Powers, Robert Chemistry	\$480,000NSF
*ABI Innovation: A Metabolomics Toolkit	
for NMR and Mass Spectrometry	Ramamurthy, Byravamurthy Computer Science and Engineering
\$695,000NSF	CC*DNI Integration: Innovating Network Cyberinfrastructure through Openflow and Content Centric Networking in Nebraska
Proctor, Christopher Agronomy and Horticulture	\$572,112NSF
*Optimizing Cropping Systems for Resilience to Stress:	Bockelman, BrianComputer Science and Engineering
The Role of Maturity Group Selection and Cover Crops on Yield, Weeds, Insects and Microbes	Swanson, DavidComputer Science and Engineering
\$461,187 USDA-NIFA	Day Obistovenian Weter Center/Oivil Fusingsvins/
Drewnoski, Mary Animal Science	Ray, Chittaranjan Water Center/Civil Engineering/
Elmore, Roger Agronomy and Horticulture	Robert B. Daugherty Water for Food Institute
Everhart, SydneyPlant Pathology	*Sustaining Agriculture through Adaptive Management Resilient to
McMechan, Anthony Eastern Nebraska Research	a Declining Ogallala Aquifer and Changing Climate
and Extension Center	\$945,567USDA-NIFA through Colorado State University
Parsons, Jay Agricultural Economics	Rudnick, Daran West Central Research and Extension Center/
Redfearn, Daren Agronomy and Horticulture	Robert B. Daugherty Water for Food Institute
Werle, Rodrigo West Central Research and Extension Center	Schoengold, Karina Agricultural Economics/Robert B. Daugherty
	Water for Food Institute
Qian, Yi Electrical and Computer Engineering Spectrum and Energy Efficient Radio Resource Access in	Shaver, Tim West Central Research and Extension Center/ Robert B. Daugherty Water for Food Institute
Wireless Networks with Densely Deployed Underlay Devices	*Integrating the Vadose Zone for Improved Management
\$300,000NSF	of Nebraska Ground Water Quality
Sharif-Kashani, Hamid Electrical and Computer Engineering	\$276,813Nebraska Environmental Trust
	Snow, Daniel
Qiao, Wei *Online Nonintrusive Identification and Monitoring of Internal Weak	Robert B. Daugherty Water for Food Institute
Points of Electro-energy Devices Using Package Surface Temperature	Rebarber, Richard Mathematics
\$337,897NSF	Nebraska Math Scholars
+,	Sp9,996NSF
Cognitive Prediction-Enabled Online Intelligent Fault Diagnosis	
and Prognosis for Wind Energy Systems	Curto, CarinaMathematics Hartke, StephenMathematics
\$359,852NSF	Williams, Amber Student Affairs
,	Woodward, Gordon
Qu, Liyan Electrical and Computer Engineering	vvoodward, Gordon
*Voltage and Frequency Power Converter	Dilay Mark
Based on Electromagnetic Induction	Riley, Mark Biological Systems Engineering
\$493,349 DOE-ARPA-E	Nebraska AgrAbility
ф+33,3+3	\$729,000USDA-NIFA
	Frecks, Nancy West Central Research and Extension Center Nielsen, Sharon West Central Research and Extension Center

Rosenbaugh, Scott Midwest Roadside Safety Facility *Cost-efficient, TL-2 Bridge Rail for Low-volume Roads	Schubert, Eva Electrical and Computer Engineering MRI: Development of an Ion-Beam-Assisted Glancing Angle
\$309,141	Deposition Tool (iGLAD) for 3D Nanostructure Thin Film Preparation with in situ Ellipsometry Control
Bielenberg, RobertMidwest Roadside Safety Facility Faller, RonaldMidwest Roadside Safety Facility	\$411,501
Samal, Ashok Computer Science and Engineering Speech Movement Classification for Diagnosing and Treating ALS	Hofmann, Tino Electrical and Computer Engineering lanno, Natale Electrical and Computer Engineering
\$256,061	Korlacki, Rafal Electrical and Computer Engineering Lai, Rebecca
Marx, David Statistics	Pannier, Angela Biological Systems Engineering Schmidt, Daniel Electrical and Computer Engineering Schubert, Mathias Electrical and Computer Engineering
Saraf, Ravi Chemical and Biomolecular Engineering *High Specificity MicroRNA Microarray Analysis without PCR for Cancer Screening and Research	Sinitskii, Alexander
\$490,048 NIH-NCI	Searls, Mindi Earth and Atmospheric Sciences/ Center for Science, Mathematics and Computer Education
*The Influence of Subjective and Objective Rural School Security on Law Enforcement Engagement Models	GP-IMPACT: Building a Comprehensive Geoscience Learning Experience
\$645,952	\$400,075
Schacht, Walter Agronomy and Horticulture Demonstrating Grazing Land Resilience to Drought	Bathke, Deborah Earth and Atmospheric Sciences Harwood, David Earth and Atmospheric Sciences
in the Central and Northern Great Plains \$363,120 USDA-NRCS through South Dakota State University Knutson, Cody	Sellmyer, David Physics and Astronomy/ Nebraska Center for Materials and Nanoscience
Stockton, Matthew West Central Research and Extension Center Volesky, Jerry West Central Research and Extension Center	Development of Radically Enhanced alnico Magnets (DREaM) \$600,000 DOE-Ames Laboratory Shield, Jeff Mechanical & Materials Engineering
Schnable, James Agronomy and Horticulture/ Center for Plant Science Innovation	Skomski, Ralph
Identifying Mechanisms Conferring Low Temperature Tolerance in Maize, Sorghum, and Frost-tolerant Relatives	DMREF: Design and Synthesis of Novel Magnetic Materials \$461,154NSF Xu, XiaoshanPhysics and Astronomy
\$455,000	
Center for Plant Science Innovation	Shadwick, Bradley Physics and Astronomy *High Fidelity Modeling of Laser-Plasma Accelerators
	\$450,000NSF Kalmykov, SergePhysics and Astronomy
	Theory and Modeling of Petawatt Laser Pulse Propagation in Low Density Plasmas
	\$419,999

Shield, Jeffrey Mechanical & Materials Engineering/	Midwest Regional Robert Noyce Connections 2014-2015:
Nebraska Center for Materials and Nanoscience	Building Communities of Practice
*Grain and Interface Engineering for	\$799,420NSF
High-efficiency Hybrid Perovskite Solar Cells	Lewis, Elizabeth
\$450,000	Lewis, Jim
Development of Textured High Energy Nanocomposite	Pedersen, JonTeaching, Learning and Teacher Education
Permanent Magnets for Electric Motors and Generators	Swidler, StephenTeaching, Learning and Teacher Education
\$347,726 National Oilwell Varco	
	Smyth, Jolene Sociology/
MPRP Sauce Fluid Dynamic Study for Perfect Dispense System	Survey Research and Methodology
\$550,000 ConAgra	*Using Statistical and Survey Methodology Research to Improve
Zhang, Zhaoyan Mechanical & Materials Engineering	or Redesign Surveys Related to Science and Engineering
	\$345,000 USDA-NASS
Sinitskii, Alexander Chemistry	Olson, KristenSociology/Survey Research and Methodology
*Extended Atomically Precise Graphene Nanoribbons and	
Nanostructures with Improved Electrical Conductivity	Snow, Daniel Water Center/
\$768,496 DoD-ONR	Robert B. Daugherty Water for Food Institute
Enders, Axel Physics and Astronomy	Vadose Zone Nitrate Study for the City of Hastings, NE: 2015
	\$299,982City of Hastings, NE
Polarization-Mediated Modulation of Electronic Properties	Ray, ChittaranjanWater Center/
of Hybrid Ferroelectric Based Heterostructures	Robert B. Daugherty Water for Food Institute
\$409,996NSF	
Gruverman, Alexei Physics and Astronomy	Snow, Gregory Physics and Astronomy
	GAANN Fellowships for Physics at UNL
Smith, Wendy Mathematics/Center for Science,	\$408,315ED
Mathematics and Computer Education	Adenwalla, ShireenPhysics and Astronomy
*Student Engagement in Mathematics through	Batelaan, Herman Physics and Astronomy
an Institutional Network for Active Learning	Claes, DanielPhysics and Astronomy
\$332,442NSF	Dominguez, AaronPhysics and Astronomy
Donsig, Allan	Gay, TimothyPhysics and Astronomy
Wakefield, NathanMathematics	Uiterwaal, Cornelis Physics and Astronomy
NebraskaNOYCE Phase II:	Och Leen Viet Commuter Ociones and Engineering
Investigating the Impact in High-Need Districts	Soh, Leen-Kiat Computer Science and Engineering
\$299,878NSF	Computational Creativity to Improve Computer Science Education for
Lai, Yuan-Juang Mathematics/Center for Science,	CS and non-CS Undergraduates
Mathematics and Computer Education	\$873,250NSF Ingraham, ElizabethArt, Art History and Design
Lewis, Jim Mathematics/Center for Science,	Moore, Brian
Mathematics and Computer Education	Ramsay, Stephen English
Males, LorraineTeaching, Learning and Teacher Education	Shell, DuaneEducational Psychology
	Janes, Baare

Sokolov, Andrei	Physics and Astronomy/ aska Center for Materials and Nanoscience	Radio Frequency Processing for Improving Microbiological Safety of Low Moisture Foods
		\$299,989 USDA-NIFA
ROBUST ROOM 16	emperature Electric Field Control agnetic and Transport Properties	Birla, Sohan Biological Systems Engineering
of Illtra Thin Sh	ape Memory Heusler Alloys Films	Thippareddi, Harshavardhan Food Science and Technology
	NSF	77,
\$30 4 ,307		Sutter, Eli Mechanical & Materials Engineering
Coongler Metthew	Animal Science	*In-situ Electron Microscopy of DNA-guided Self-assembly
Spangler, Matthew		and Reconfiguration of 3D Nanocrystal Superlattices
	gram for Genetic Improvement	\$534,231
ot reed	Efficiency in Beef Cattle	Sutter, Peter Electrical and Computer Engineering
\$400,939	USDA-NIFA through University of Missouri	outton, rotor Elocariour and computer Engineering
Otovoco Anthony	Dhysics and Astronomy	Hybrid Materials by Integration of
Starace, Anthony	Physics and Astronomy	Semiconductor Nanowires and Layered Crystals:
	fast Atomic and Molecular Processes	Chemical Transformations and Functional Properties
\$270,000	NSF	\$500,000 NSF
		Sutter, Peter Electrical and Computer Engineering
Steadman, James	Plant Pathology	
	Future Innovation Lab for	Sutter, Peter Electrical and Computer Engineering
	e Research on Grain Legumes	*Exploring and Embracing Heterogeneity
\$392,749	AID through Michigan State University	in Atomically Thin Energy Materials
Urrea Florez, Carlos	Panhandle Research and Extension Center	\$600,000 DOE
		Sutter, Eli Mechanical & Materials Engineering
Stevens, Jeffrey	Psychology/	
	Center for Brain, Biology and Behavior	Tadesse, Tsegaye Natural Resources
*Similarity as a Pro	M - -f C :	
	cess Model of Intertemporal Choice	Seasonal Prediction of Hydro-Climatic Extremes
\$655,376	NSF	in the Greater Horn of Africa under Evolving Climate Conditions
\$655,376	NSF Computer Science and Engineering/	in the Greater Horn of Africa under Evolving Climate Conditions to Support Adaptation Strategies
\$655,376	NSF	in the Greater Horn of Africa under Evolving Climate Conditions to Support Adaptation Strategies \$987,767NASA
\$655,376		in the Greater Horn of Africa under Evolving Climate Conditions to Support Adaptation Strategies \$987,767NASA Baigorria, Guillermo
\$655,376		in the Greater Horn of Africa under Evolving Climate Conditions to Support Adaptation Strategies \$987,767
\$655,376		in the Greater Horn of Africa under Evolving Climate Conditions to Support Adaptation Strategies \$987,767
\$655,376		in the Greater Horn of Africa under Evolving Climate Conditions to Support Adaptation Strategies \$987,767
\$655,376		in the Greater Horn of Africa under Evolving Climate Conditions to Support Adaptation Strategies \$987,767
\$655,376		in the Greater Horn of Africa under Evolving Climate Conditions to Support Adaptation Strategies \$987,767
\$655,376		in the Greater Horn of Africa under Evolving Climate Conditions to Support Adaptation Strategies \$987,767
\$655,376		in the Greater Horn of Africa under Evolving Climate Conditions to Support Adaptation Strategies \$987,767
\$655,376 Soh, Leen-Kiat Causes of Insights \$262,752 Moriyama, Hideaki Subbiah, Jeyamkondan		in the Greater Horn of Africa under Evolving Climate Conditions to Support Adaptation Strategies \$987,767
\$655,376 Soh, Leen-Kiat Causes of Insights \$262,752 Moriyama, Hideaki *Immersive Educat		in the Greater Horn of Africa under Evolving Climate Conditions to Support Adaptation Strategies \$987,767
\$655,376 Soh, Leen-Kiat Causes of Insights \$262,752 Moriyama, Hideaki *Immersive Educat Understanding of Co		in the Greater Horn of Africa under Evolving Climate Conditions to Support Adaptation Strategies \$987,767
\$655,376 Soh, Leen-Kiat Causes of Insights \$262,752 Moriyama, Hideaki *Immersive Educat Understanding of Co		in the Greater Horn of Africa under Evolving Climate Conditions to Support Adaptation Strategies \$987,767
\$655,376 Soh, Leen-Kiat Causes of Insights \$262,752 Moriyama, Hideaki *Immersive Educat Understanding of Co \$999,644 Chen, Jiajia		in the Greater Horn of Africa under Evolving Climate Conditions to Support Adaptation Strategies \$987,767
\$655,376 Soh, Leen-Kiat Causes of Insights \$262,752 Moriyama, Hideaki *Immersive Educat Understanding of Co \$999,644 Chen, Jiajia Guru, Ashu		in the Greater Horn of Africa under Evolving Climate Conditions to Support Adaptation Strategies \$987,767
\$655,376 Soh, Leen-Kiat Causes of Insights \$262,752 Moriyama, Hideaki *Immersive Educat Understanding of Co \$999,644 Chen, Jiajia Guru, Ashu Keshwani, Deepak	Riological Sciences Biological Sciences Parallel Molecular Evolution: from Protein Engineering NSF Biological Sciences Biological Systems Engineering/ Food Science and Technology cional Game Simulations to Enhance orn-Water Ethanol-Beef System Nexus NSF Food Science and Technology Extension Biological Systems Engineering	in the Greater Horn of Africa under Evolving Climate Conditions to Support Adaptation Strategies \$987,767
\$655,376 Soh, Leen-Kiat Causes of Insights \$262,752 Moriyama, Hideaki *Immersive Educat Understanding of Co \$999,644 Chen, Jiajia Guru, Ashu Keshwani, Deepak Keshwani, Jenny	Biological Systems Engineering/ Food Science and Technology Conter Ethanol-Beef System Nexus Food Science and Technology Spring Food Science and Technology Extension Biological Systems Engineering Food Science and Technology Spring Food Science and Technology Spring Food Science and Technology Spring Food Science and Technology Extension Biological Systems Engineering Biological Systems Engineering	in the Greater Horn of Africa under Evolving Climate Conditions to Support Adaptation Strategies \$987,767
\$655,376 Soh, Leen-Kiat Causes of Insights \$262,752 Moriyama, Hideaki *Immersive Educat Understanding of Co \$999,644 Chen, Jiajia Guru, Ashu Keshwani, Deepak Keshwani, Jenny Koelsch, Richard	Biological Systems Engineering/ Food Science and Technology Biological Systems Engineering/ Food Science and Technology In Span Systems Engineering/ Food Science and Technology Food Science and Technology Systems Engineering/ Food Science and Technology Food Science and Technology Systems Engineering/ Food Science and Technology Extension Biological Systems Engineering Biological Systems Engineering Biological Systems Engineering Biological Systems Engineering	in the Greater Horn of Africa under Evolving Climate Conditions to Support Adaptation Strategies \$987,767
\$655,376 Soh, Leen-Kiat Causes of Insights \$262,752 Moriyama, Hideaki *Immersive Educat Understanding of Co \$999,644 Chen, Jiajia Guru, Ashu Keshwani, Deepak Keshwani, Jenny Koelsch, Richard Rosenbaum, David	Biological Systems Engineering/ Food Science and Technology Conter Ethanol-Beef System Nexus Food Science and Technology Spring Food Science and Technology Extension Biological Systems Engineering Food Science and Technology Spring Food Science and Technology Spring Food Science and Technology Spring Food Science and Technology Extension Biological Systems Engineering Biological Systems Engineering	in the Greater Horn of Africa under Evolving Climate Conditions to Support Adaptation Strategies \$987,767

Taylor, Stephen	Food Science and Technology	Turner, Joseph	Mechanical & Materials Engineering
Effects of Food Processin	ng on Food Allergens - Assessment and entertain Methods	*An Integrated Expe	erimental and Computational Approach er Biomechanical Mechanisms
	USDA-NIFA		Epidermal Morphogenesis
Baumert, Joseph	Food Science and TechnologyFood Science and Technology		NSF
Keshwani, Deepak	Biological Systems Engineering	Development	of Improved Product Performance
	Biological Systems Engineering/	through C	Optimization and Modeling of
	Food Science and Technology		laterials, Processing, and Function
		\$428,963	Amsted Industries
	Biological Sciences/Mathematics	Twidwell Directs	Agranamy and Harticulture
in Var	Resistance Management Strategies riable Environments		Agronomy and Horticulture and Landscape Intervention Potential:
	Monsanto Biological Sciences		Statewide AssessmentDOI-FWS through
	Entomology		Nebraska Game and Parks Commission
Wichiko, Lance	gy	Allen, Craig	
Terry, Benjamin	Mechanical & Materials Engineering	•	
*En Route Care Patien	t Viability Technology Development	Tyler, Kimberly	Sociology
\$308,015	National Strategic Research Institute		ective Factors, and Substance Use meless Youth and Young Adults
	e Peritoneal Ventilation Treatment		NIH-NIDA
	piratory Distress Syndrome	Olson, Kristen	Sociology/Survey Research and Methodology
\$405,929	NIH-NHLBI	Umatadtar Danald	Dhysias and Astronomy
Thomas, Steven	Natural Resources	Umstadter, Donald *Ultrado	Physics and Astronomy w Emittance Electron Beams
	tegrative Traits-Based Approach		ser-Plasma Photo-cathodes
to Predicting	Variation in Vulnerability	\$314,998	NSF
	Stream Biodiversity to Climate Change		Physics and Astronomy
\$310,811	NSF	Chen, Shouyuan	Physics and Astronomy
	Teaching, Learning and Teacher Education tion Grant Evaluation OPS	Van Den Broeke, Matthew Aeroecology as a Tes	Earth and Atmospheric Sciences st-Bed for Interdisciplinary STEM Training
\$336,008 National E	Education Association Foundation through Omaha Public Schools	\$391,463	NSF through University of Oklahoma
Hamann, Edmund	Teaching, Learning and Teacher Education		atifying the Relative Roles se Change, Irrigation, and Remote Forcing
Tuan, Christopher	Civil Engineering	in Southern Gr	eat Plains Precipitation Variability
	Airfield Heated Pavement Construction		NSF
	DOT-FAA Electrical and Computer Engineering		Natural ResourcesEarth and Atmospheric Sciences/ Natural Resources
Tucker, Shane	University of Nebraska State Museum		
Highway	Paleontology Program		
\$765,766	DOT-FHWA through		
	Nebraska Department of Transportation		

van Dijk, KarinBiochemistry*Engaging the Next Generation of Biochemists\$599,096	*UNL-VBC Collaboration: Using Plant Phenomics to Capture Dynamic Growth Responses in Maize \$341,500
Van Etten, James Plant Pathology Evaluation of the Natural History of Algal Viruses Associated with Patients Diagnosed with Human Psychiatric Disorders \$397,147 Stanley Medical Research Institute	Resolved Regulatory Gene Networks in Plants \$563,801
Vu, Hiep Determine the Correlates of Protection against Porcine Reproductive and Respiratory Syndrome Viruses Infection \$477,635	Walker, Judy Mathematics/Center for Science, Mathematics and Computer Education *NSF INCLUDES: WATCH US Women Achieving Through Community Hubs in the United States \$299,024NSF Walker, Mark Mathematics GAANN: Department of Mathematics
Vuran, Mehmet Can *NeTS: Small: 2G for UG: High Data-rate and Long-range Communication Techniques for Wireless Underground Networks \$450,000	\$544,420 .ED Bellows, Laurie .Graduate Studies Hermiller, Susan .Mathematics Lewis, Jim .Mathematics Rebarber, Richard .Mathematics Walker, Judy .Mathematics
NeTS: Small: Advancing Time Synchronization for Sustainable Wireless Networks \$500,000	Walters, Cory Northern Plains Regional Farm Business Management and Benchmarking Partnership \$443,561
Batur, Demet	*Plasticity of High-strength Multiphase Metallic Composites \$250,018DOE through University of Michigan

Wang, Lily	Durham School of Architectural Engineering and Construction	Wilson, Richard	Plant Pathology ns Connecting Plant Defense Suppression
	ons between Indoor Environmental Factors its on K-12 Student Achievement	with <i>Magnaport</i>	the oryzae Growth in Rice Cells
Bovaird, James Lau, Josephine	EPAEducational PsychologyDurham School of Architectural Engineering and Construction	to Host Rice	anisms of Nutrient Adaptation e Cells by the Blast Fungus USDA-NIFA
Waters, Clarence	Durham School of Architectural Engineering and Construction	Witt-Swanson, Lindsey	Sociology/
Conti	Agronomy and Horticulture Aspects of Iron Uptake Regulation rolled by the fefe Gene	\$559,234Nebraska [Bureau of Sociological Research sk Factor Surveillance SurveyDHHS-CDC through Department of Health and Human ServicesBureau of Sociological Research
in Iron Def	I Iron & Copper Cross-Talk icient <i>Arabidopsis Thaliana</i> NSF	and Risk Pre	2017 Student Health vention Surveillance System DHHS-SAMHSA through Nebraska Department of Health
Weaver, Eric	Biological Sciences/ Nebraska Center for Virology	Meiergerd, Kimberly	Bureau of Sociological Research
	nunogens for Influenza VaccinesNIH-NIAID	Wood, Charles *Comparative Vir	Biological Sciences/Biochemistry/ Nebraska Center for Virology ology Research Training Program
	Sociology Diabetes among Indigenous Adults	\$830,930	
Crawford, Devan			nd Aging in NeuroAIDS (CHAIN) CenterNIH-NIMH through UNMC
White, Brett	Animal Science	Wortmann, Charles Developing and Fine	Agronomy and Horticulture -Tuning Fertilizer Recommendations
	Receptor in Testicular Function of SwineUSDA-NIFA	\$444,228Alliance fo	oil Fertility Management Framework or Green Revolution in Africa through CABI
	Psychology ence and Probationer Decision Making: ocial Cognitive Model		Agronomy and Horticulture agement to Speed Degradation based Mulches in Soil
\$641,614	DOJ-NIJ		USDA-NIFAAgronomy and Horticulture
	Biochemistry nition of LRRK2 Protein ComplexesMichael J. Fox Foundation	State	Special Education and Communication Disorders on Spectrum Disorders Network, Coordinator Project urough Nebraska Department of Education

Estimatio	Computer Science and Engineering mall: Exploring the Design Space of Bandwidth n Methods Using Packet Sequence Information
Ne	Small: Systematically and Scalably Testing twork Programs under Packet DynamicsNSF
Elbaum, Sebastio	an
Geophys	Computer Science and Engineering Cube IA: Optimal Data Layout for Scalable sical Analysis in a Data-Intensive Environment
	mall: A Scalable Visual Analytics Framework for Exascale Scientific SimulationsNSF
Yuen, Gary *Genetics and \$297,152	Plant Pathology d Genomics of Pathogen Resistance in Switchgrass USDA-ARS through DOE
Zempleni, Janos	Nutrition and Health Sciences
\$499,812	Roles of Milk-Borne MicroRNAs in the Regulation of Gut Inflammation
\$499,812 Ramer-Tait, Ama	Roles of Milk-Borne MicroRNAs in the Regulation of Gut Inflammation
\$499,812 Ramer-Tait, Ama \$286,799	Roles of Milk-Borne MicroRNAs in the Regulation of Gut Inflammation
\$499,812 Ramer-Tait, Ama \$286,799 Zeng, Lirong	Roles of Milk-Borne MicroRNAs in the Regulation of Gut Inflammation
\$499,812 Ramer-Tait, Ama \$286,799 Zeng, Lirong *F \$685,000 Zera, Anthony Nutritional	Roles of Milk-Borne MicroRNAs in the Regulation of Gut Inflammation
\$499,812 Ramer-Tait, Ama \$286,799 Zeng, Lirong *F \$685,000 Zera, Anthony Nutritional \$343,500 Zhu, Jinying *Online	Roles of Milk-Borne MicroRNAs in the Regulation of Gut Inflammation

Zygielbaum, Art	Natural Resources
Dimensions NASA: Linking Remotely Sensed	Optical Diversity
to Genetic, Phylogenetic and Function	al Diversity
to Predict Ecosystem Process	es
\$716,893	

Early Career Awards

Active awards, July 1, 2016–June 30, 2017

* Indicates new in 2016-2017

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.













Lai, Rebecca
Chemistry
CAREER: Ligand-Induced Folding in Peptides
for Biosensing Applications
\$455,000NSF



Li. Xu



Lim, Jung Yul
Mechanical & Materials Engineering
CAREER: Adipocytic Mechanotransduction
for Obesity
\$430,554......NSF



Males, Lorraine
Teaching, Learning and Teacher Education
*CAREER: Examining Prospective Secondary
Mathematics Teachers Learning to Use Curriculum
Materials to Plan and Enact Instruction
\$628,995







Pannier, Angela
Biological Sciences
CAREER: Nanostructured Thin Films for
Substrate-Mediated Gene Delivery
\$419,051NSF





Qu, Liyan

Electrical and Computer Engineering

CAREER: Adjustable-Voltage-Ratio

Magnetoelectric Transformer: A New Voltage

Conversion and Control Device for Smart Grids

\$500,000NSF













Air Force Young Investigator Program

YIP awards support scientists and engineers who have received Ph.D. or equivalent degrees in the last five years and show exceptional ability and promise for conducting basic research.



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.



Arts and Humanities Awards \$250,000 or More

Active awards, July 1, 2016-June 30, 2017

* Indicates new in 2016-2017

Heitman, Carolyn

Anthropology/Center for Digital Research in the Humanities

 Salmon Pueblo Archaeological Research Collection

 \$300,000
 NEH

 05/01/2015 - 10/31/2017
 NEH

Walter, KatherineCenter for Digital Research in the Humanities



With a \$300,000 National Endowment for the Humanities grant, anthropologist Carrie Heitman is part of a team of researchers who are digitizing about 1.5 million photographs, field notes and other records generated during 1970s and 1980s excavations of the 1,000-year-old Salmon Pueblo in northwestern New Mexico. The Chaco Research Archive,

which Heitman directs, will house the digitized records. Digital access will allow researchers to explore more fully this historically and culturally significant community. Collaborators are the Salmon Ruins Museum, Archaeology Southwest, Nebraska's Center for Digital Research in the Humanities and the University of Virginia's Institute for Advanced Technology in the Humanities, home to the Chaco Research Archive

Jewell. Andrew

Center for Digital Research in the Humanities

Complete Letters of Willa Cather

Homestead, Melissa English/Center for Digital
Research in the Humanities



The National Endowment for the Humanities is supporting the work of Andrew Jewell, associate professor of 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 English



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

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.

Price. Kenneth

English/Center for Digital Research in the Humanities



With a \$330,000 award from the National Endowment for the Humanities, the Walt Whitman Archive, a digital archive that makes Whitman's vast work easily and conveniently accessible to scholars, students, and general readers alike, is expanding its content to include Whitman-authored materials written before the 1855 edition of *Leaves of Grass*.

The Whitman Archive is gathering, editing and annotating these early materials for digital publication, offering a seamlessly integrated presentation of Whitman's literary contributions in the lead-up to his masterpiece, *Leaves of Grass*. This three-year project is led by Kenneth Price, Hillegass University Professor of English and co-director of the Center for Digital Research in the Humanities.

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 – 12/31/17



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

National Digital Newspaper Program: Nebraska \$763,012NEH Mering, MargaretUniversity Libraries



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.

Wisnicki, Adrian

English/Center for Digital Research in the Humanities



Adrian Wisnicki, assistant professor of English and spectral imaging specialist at the Center for Digital Research in the Humanities, leads Livingstone Online, http://livingstoneonline.org, a large multi-institutional project to update the digital home for Livingstone's manuscripts. Wisnicki and colleagues are collaborating with more than 30 archives worldwide, developing a

sustainable digital platform, and conducting scholarship and outreach activities. More than \$430,000 in grants from the National Endowment for the Humanities fund Wisnicki's Livingstone work.

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

Active awards, July 1, 2016-June 30, 2017

^{*} Indicates new in 2016-2017

Barker, Bradley *Library Innovation Studios: Trans: \$236,771IMLS through Boeckner, Linda	n Nebraska Library CommissionExtension nanical & Materials Engineering Research and Extension Center
Jockers, Matthew	English/Center for Digital Research in the Humanities
Text Mining the Establishing the Foundation \$112,524	s of a New Discipline
Lorang, Elizabeth Center for Dig *Extending Image Analysis for A \$462,317	IMLS
Price, Kenneth	English/Center for Digital Research in the Humanities
*Unearthing the "Buried Masterpie A Digital Variorum of the 1 \$300,000	ece" of American Literature: 855 <i>Leaves of Grass</i>
Richards-Rissetto, Heather Center for Dig *Keeping Data Alive: Sup Repurposing of 3D Data \$74,368	Anthropology/ ital Research in the Humanities porting Reuse and in the HumanitiesNEH
Walter, KatherineCenter for Dig	History/Center for Digital
O Say Can Yo	Research in the Humanities
Early Washington, D.C., Lar \$200,000	w and Family Project
T,	

Walter, Katherine Center for Digital Research in the Humanities

*From Prairie to Palace: Buffalo Bill's Wild West in Europe

Wisnicki, Adrian English/Center for Digital Research in the Humanities

Arts and Humanities Awards \$5,000 to \$49,999 Active awards, July 1, 2016–June 30, 2017

^{*} Indicates new in 2016–2017

Dombrowski, Kirk Sociolo *Looking Past Skin: Nebraska Immigration Today and Yesterday \$6,500 Humanities Nebras Matthews, Kim Sociolo	ka
Engen-Wedin, Nancy Lied Center for Performing An Heather Hensen's Flight, A Crane's Story \$15,000	
Hoff, Michael Art, Art History and Desi *Antiochia ad Cragum Excavations: 2017 Season \$30,000	_
James, Michael Textiles, Merchandising and Fashion Desi Robert Hillestad Textiles Gallery \$10,000	_
Historic Costume Collection \$6,000Friends of the Hillestad Textiles Galle	ery
Price, Kenneth *Fame and Infamy: Walt Whitman's Old-Age Correspondence \$14,317	es ds wa
\$16,451 National Historical Publications and Recor Commission through University of Iov	
*Beyond East and West: Exchanges and Interactions across the Early Modern World (1400-1800) \$21,074	
Seaton, Melynda Center for Great Plains Studi *Contemporary Indigeneity 2016: Spiritual Borderlands \$8,000	

Shear, Donna	University of Nebraska Press				
\$30,100	Early American RegionsUniversity of Georgio				
Smith, Harris	Johnny Carson School of Theatre and Film *Nebraska Rep Relaunch				
\$7,500	Cooper Foundation				
Walter, Katherine	University Libraries/Center for Digital Research in the Humanities				
\$43,188	Humanities without Walls Andrew W. Mellon Foundation through University of Illinois-IPRH				



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 2016-2017

Recognition for faculty and other university personnel who received patents for their inventions July 1, 2016–June 30, 2017

P. Stephen Baenziger, Jerry Bohlmann, Mitchell Montgomery, Greg Dorn, Richard Little, Chris Hoagland, Agronomy and Horticulture

Title: NE06545

Date: 7/6/2016

Number: 201400398

Country: United States

P. Stephen Baenziger, Jerry Bohlmann, Mitchell Montgomery, Greg Dorn, Richard Little, Agronomy and Horticulture

Title: NE05548

Date: 7/6/2016

Number: 201400410

Country: United States

Christian Binek, Physics and Astronomy

Title: Refrigeration through Voltage-controlled Entropy Change

Date: 2/21/2017 Number: 9,574,802 Country: United States

Chin Li "Barry" Cheung, Neil J. Lawrence, Gonghua Wang, Chemistry

Title: Cerium Oxide Having High Catalytic Performance

Date: 2/7/2017 **Number:** 9,561,491 B2 **Country:** United States

Carrick Detweiler, Sebastian Elbaum, John-Paul Ore, Computer Science; Baoliang Zhao, Mechanical & Materials Engineering

Title: Aerial Water Sampler

Date: 3/28/2017 **Number:** 9,606,028 **Country:** United States

Stephen G. DiMagno, Chemistry

Title: Fluorination of Aromatic Ring Systems

Date: 12/2/2016 Number: 6049804 Country: Japan

Title: Processes and Reagents for Making Diaryliodonium Salts

Date: 11/1/2016 **Number:** 702736 **Country:** New Zealand

Peter A. Dowben, Bernard Doudin, Zhengzheng Zhang,

Physics and Astronomy

Title: Zwitterion Quinonoid Molecules as N-Type Organic Semiconductor and Hole Injection Enhancer for Organic

Electronics Devices

Date: 9/6/2016

Number: JP,6002134,B

Country: Japan

Title: Zwitterion Quinonoid Molecules as N-Type Organic Semiconductor and Hole Injection Enhancer for Organic

Electronics Devices **Date:** 12/27/2016 **Number:** 2,609,639 **Country:** France

Title: Zwitterion Quinonoid Molecules as N-Type Organic Semiconductor and Hole Injection Enhancer for Organic

Electronics Devices **Date:** 12/27/2016 **Number:** 2,609,639 **Country:** Germany

Title: Zwitterion Quinonoid Molecules as N-Type Organic Semiconductor and Hole Injection Enhancer for Organic

Electronics Devices

Date: 12/27/2016

Number: 2,609,639

Country: United Kingdom

Patrick H. Dussault, Wantanee Sittiwong, Robert Powers, Chemistry; Raul Barletta. Veterinary and Biomedical Sciences

Title: Amphiphilic Cyclobutenes and Cyclobutanes

Date: 3/24/2017 Number: 702154 Country: New Zealand

Shane M. Farritor, Mechanical & Materials Engineering

Title: System for Imaging and Measuring Rail Deflection

Date: 4/18/2017 Number: 9,628,762 Country: United States

Ming Han, Electrical and Computer Engineering

Title: Fiber-optic Sensors for Temperature Measurement from

Cryogenic to Above 1000°C

Date: 6/13/2017 **Number:** 9,677,949 **Country:** United States

Milford A. Hanna, Pratik N. Bhandari, Biological Systems Engineering

Title: Method for the Production of Substituted Polysaccharides Via

Reactive Extrusion

Date: 5/2/2017

Number: 9,637,560

Country: United States

Tomas Helikar. Mathematics

Title: System and Method for Dynamic Modeling of Biochemical

Processes

Date: 8/2/2016

Number: 9,405,863

Country: United States

Jinsong Huang, Fawen Guo, Mechanical & Materials Engineering

Title: Nanocomposite Photodetector

Date: 6/20/2017 **Number:** 9,685,567 **Country:** United States

Jinsong Huang, Qingfeng Dong, Rui Dong, Yuchuan Sao, Cheng Bi, Qi Wang, Zhengguo Xiao, Mechanical & Materials Engineering Title: Photovoltaic Perovskite Material and Method of Fabrication

Date: 7/12/2016 **Number:** 9,391,287 **Country:** United States

Jinsong Huang, Yuchuan Shao, Qingfeng Dong, Mechanical &

Materials Engineering

Title: Systems and Methods for Scalable Perovskite Device Fabrication

Date: 2/28/2017 Number: 9,583,724 Country: United States

Haorong Li, Yanshun Yu, Daihong Yu, Architectural Engineering

Title: Gas Collection
Date: 6/20/2017
Number: 9,684,314
Country: United States

Sally Mackenzie, Roberto de la Rosa Santamaria, Agronomy

and Horticulture

Title: An Inducible Cytoplasmic Male Sterility and Fertility Restoration

System for Hybrid Seed Production in Crops

Date: 10/25/2016 Number: 9,476,040 Country: United States

Title: Plants With Useful Traits and Related Methods

Date: 4/28/2017 **Number:** 6133275 **Country:** Japan

Title: Plants With Useful Traits and Related Methods

Date: 5/3/2017

Number: ZL201280031753.8

Country: China

Nicole Buan Murphy, Jennifer Catlett, Biochemistry

Title: Microbial Strains and Methods of Making and Using

Date: 3/21/2017 **Number:** 9,598,678 **Country:** United States

Jody G. Redepenning, Alexander Sinitskii, Benjamin Wymore,

Chemistry

Title: Polymer on Graphene

Date: 1/31/2017 Number: 9,558,929 Country: United States

Christopher Y. Tuan, Civil Engineering; **Lim Nguyen,** Electrical and Computer Engineering

Title: Structural Concrete Mix for Construction for Electromagnetic

Wave/Pulse Shielding **Date:** 6/13/2017 **Number:** 9,681,592 **Country:** United States

Donald P. Umstadter, Physics and Astronomy

Title: Method of Aligning a Laser-Based Radiation Source

Date: 11/1/2016 **Number:** 9,485,847 **Country:** United States

Mehmet C. Vuran, Xin Dong, David J. Anthony, Computer Science

Title: Antenna for Wireless Underground Communication

Date: 3/9/2017

Number: 2013292513 Country: Australia

Yue Zhao, Wei Qiao, Electrical and Computer Engineering

Title: Methods of Estimating a Position of a Rotor in a Motor Under

Transient and Systems Thereof

Date: 2/21/2017 **Number:** 9,577,555 **Country:** United States

2016-2017 License Agreements

Recognition for faculty whose technologies formed the basis of licensing agreements with industry partners July 1, 2016–June 30, 2017

P. Stephen Baenziger, Jerry Bohlmann, Mitchell Montgomery, Greg Dorn, Richard Little, Chris Hoagland, Agronomy and Horticulture

Technology: (5) Overland Wheat **Technology:** Multiple Wheat Varieties

Jie Cheng, F. Fred Choobineh, Electrical and Computer Engineering

Technology: System to Extend Wind Turbine Power Generation

Capabilities

George Graef, Les Korte, Dennis White, Travis Wegner, James Specht,

Agronomy and Horticulture

Technology: Soybean Varieties

Yuguo Lei, Chemical and Biomolecular Engineering

Technology: Large Scale Cell Manufacture System

Richard Moberly, Molly Brummond, Susan Poser, Marc Pearce,

College of Law

Technology: Professional Skills Tracking Mobile App

Tri D. Setiyono, James E. Specht, Kenneth G. Cassman, Agronomy and Horticulture; Albert Weiss, School of Natural Resources;

Achim Dobermann

Technology: SoySim Software

Stephen Taylor, Joseph Baumert, Susan Hefle, Food Science

and Technology

Technology: Allergen Kits - 4 licenses

Benjamin S. Terry, Mechanical & Materials Engineering

Technology: Extrapulmonary Ventilation Technology

Benjamin S. Terry, Pengbo Li, Wanchuan Xie, Alfred Tsubaki,

Weston Lewis, Mechanical & Materials Engineering

Technology: Medical Sensor System

Carlos Urrea Florez, Panhandle Research and Extension Center;
James Steadman, Plant Pathology

Technology: Great Northern Bean "Panhandle Pride"

Hiep Vu, Animal Science; Asit Pattnaik, Fernando Osorio,

Veterinary and Biomedical Sciences; Fangrui Ma, Biological Sciences

Technology: PRRVS Vaccine

Daniel T. Walters, Haishun Yang, Patricio Grassini, Kenneth G. Cassman, Agronomy and Horticulture; Achim Dobermann

Technology: Hybrid Maize Software

Yiqi Yang, Textiles, Merchandising and Fashion Design

Technology: Methods of Enhancing Dyeability of Polymers

Sherif Yehia, Christopher Y. Tuan, Civil Engineering; Bing Chen,

Lim Nguyen, Electrical and Computer Engineering

Technology: Conductive Concrete – 2 licenses

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, 2016–June 30, 2017

Submitted by faculty, chairs/heads or deans

Scott L. Anderson

Glenn Korff School of Music

Solo performer, trombone. "Obscurities from the Paris Conservatory Repertoire for Trombone." American Trombone Workshop, Fort Meade, Washington, DC.

John R. Bailev

Glenn Korff School of Music

Conductor. International Flute Orchestra concert tour of Ireland and Northern Ireland. Christ Church Cathedral, Dublin, Ireland; St. Anne's Cathedral, Belfast, Northern Ireland; Unionhall, Derry, Northern Ireland.

Diane Barger

Glenn Korff School of Music

Solo performer, clarinet. "Sonata." Board of Director's Recital, International Clarinet Association ClarinetFest, Lawrence, Kansas.

Paul Barnes

Glenn Korff School of Music

Solo performer, piano. "Philip Glass at 80: Exploring the Pedagogical Implications of the Études for Piano." Music Teachers National Association Conference, Baltimore, Maryland.

Solo performer, piano. Italian tour featuring his "Philip Glass Retrospective Recital." Il Tempietto Concerti, Marcello Theater, Rome, Italy.

Solo featured performer, piano. "New Generations: The Études of Philip Glass and Music of the Next Generation." WFMT's Impromptu, WFMT Studios, Chicago, Illinois.

Wheeler Winston Dixon

Film Studies

Video producer. "Life of Luxury," "An American Dream" and "Beat Box." Screenings at the Amos Emo Gallery, Brooklyn, New York, and The Sla307 Art Space, New York, New York.

Gwendolyn Audrey Foster

English and Film Studies

Video producer. "Echo and Narcissus," "Mirror" and "Tenderness." Screenings at the Amos Emo Gallery Brooklyn, New York, and The Sla307 Art Space, New York, New York.

Nana Fritz

School of Art, Art History and Design

Sculptor. "(dis)similar articulations (series)." Dana Fritz Exhibition, Scottsdale Museum of Contemporary Art, Scottsdale, Arizona.

Photographer. "Views Removed." Dana Fritz Exhibition, Sioux City Art Center, Sioux City, Iowa.

Carrie C. Heitman

Anthropology/Center for Digital Research in the Humanities

Director. "Ohio Hopewell: Ancient Crossroads of the American Midwest." Web Exhibition, hopewell.unl.edu.

Elizabeth Ingraham

School of Art, Art History and Design

Quilt artist. "Regarding Nebraska." Elizabeth Ingraham Exhibition, International Quilt Study Center and Museum, Lincoln, Nebraska.

Michael F. James Textiles, Merchandising and Fashion Design

Quilt artist. "Adrift," digitally and hand-fabricated wall quilt. Crossing Generations Exhibition, Hoffman Gallery, Oregon College of Arts and Crafts, Portland, Oregon.

Quilt artist. "Allegory," digitally and hand-fabricated wall quilt. Pushing the Surface 2017 Exhibition, Johnson-Humrickson House Museum, Coschocton, Ohio.

Karen Kunc

School of Art. Art History and Design

Print artist. "From the Sketch to the Block." Karen Kunc Solo Exhibition, Salón Cultural San Miguel, Arcos de la Frontera, Spain.

Print artist. "Rifts of Condensities." 3rd International Printmaking Triennial Exhibition, Art Pavilion Cvijeta Zuzoric, Belgrade, Serbia.

Jamie Loizzo Agricultural Leadership, Education and Communication

Director. "Streaming Science." Podcast series, https://streamingscience.com/, Lincoln, Nebraska.

JD Madsen Johnny Carson School of Theatre and Film

Scenic designer. "Little Mermaid." Weber Stage, Ogden, Utah.

Scenic designer. "The Addams Family." Centerpointe Legacy Theatre, Centerville. Utah.

Scenic designer. "Eurydice." Next Stop Theatre, Washington, DC.

Scenic designer. "Assassins." Next Stop Theatre, Washington, DC.

Scenic designer. "Ulysses: An American Mythology." Opéra Louisiane, Manship Theatre, Baton Rouge, Louisiana.

Scenic designer. "Sex with Strangers." Signature Theatre, Washington, DC.

Scenic designer. "Little Women." Catholic University, Washington, DC.

Amanda Morales Teaching, Learning and Teacher Education

Film performer. "A Walk in My Shoes: Social Justice in Education," a documentary film. College of Education, Kansas State University, Manhattan, Kansas.

Clark Potter Glenn Korff School of Music

Performer, viola and piano. "Sonata for Viola and Piano (1946) by Ernest Gold" (world premiere). Stage Music by Film Composers, Kimball Recital Hall, Lincoln, Nebraska.

Guy J. Reynolds English/Cather Project

Director. "Prairie Songs: Remembering Antoniá." Group performance featuring piano, voice, violin, Johnny Carson Theater, Lincoln, Nebraska

Laurel Shoemaker Johnny Carson School of Theatre and Film

Lighting designer. "Performing Practice: Stages of Staging Our Selves." Dance Gala 2016, University of Iowa, Space Place, Iowa City, Iowa.

Lighting designer. "Ulysses: An American Mythology." Opéra Louisiane, Manship Theatre, Baton Rouge, Louisiana.

William Shomos Glenn Korff School of Music

Director. "Ulysses: An American Mythology." Opéra Louisiane, Manship Theatre, Baton Rouge, Louisiana.

Hans Sturm

Glenn Korff School of Music

Performer, bass. "Bass Meets Voice: Original Pieces for Jazz Voice and Bass." International Society of Bassists Biennial Convention, Ithaca College, Ithaca, New York.

Solo performer, bass. "Solo Works by François Rabbath." Instituto Superior de Arte, Havana, Cuba.

Performer, bass. "A Day In Paris: Original Pieces for Bass and Piano." BassEurope Congress, Prague, Czech Republic.

Solo performer, bass. "Solo Works by François Rabbath." Haute École du Musique, Geneva, Switzerland.

Richard K. Sutton

Agronomy and Horticulture/ Landscape Architecture Program

Watercolor artist. "Havelock Elevator"; "Machine in the Garden." Collecting Nebraska Exhibition, Great Plains Art Museum, Lincoln, Nebraska.

David von Kampen

Glenn Korff School of Music

Composer. "Benediction." Sacred Songs, First Congregational Church, Los Angeles, California.

Rnnks

Faculty who wrote or edited books published July 1, 2016–June 30, 2017 Submitted by faculty, chairs/heads or deans

Jonis Agee English

Author. The Bones of Paradise. New York, NY: William Morrow.

J. Clark Archer Geography (w/Anthropology)

Author, with Richard Edwards, Leslie Howard, Fred Shelley, Donald Wilhite, David Wishart. *Atlas of Nebraska*. Lincoln, NE: University of Nebraska Press.

Grace Bauer English

Author. MEAN/TIME. Albuquerque, NM: University of New Mexico Press.

Florin Bobaru Mechanical & Materials Engineering

Editor, with John T. Foster, Philippe H. Geubelle, Stewart A. Silling. Handbook of Peridynamic Modeling. Boca Raton, FL: Chapman and Hall/CRC Press, Taylor and Francis Group.

Kelsy Burke Sociology

Author. Christians under Covers: Evangelicals and Sexual Pleasure on the Internet. Berkeley, CA: University of California Press.

Janet F. Carlson

Buros Center for Testing/ Educational Psychology

Editor, with Kurt F. Geisinger, Jessica L. Jonson. The Twentieth Mental Measurements Yearbook. Lincoln, NE: Buros Center for Testing.

Timothy P. Carr Nutrition and Health Sciences

Author, with Sareen S. Gropper, Jack L. Smith. Advanced Nutrition and Human Metabolism (7th Ed.). Boston, MA: Cengage Learning.

Matt Cohen English

Author. Whitman's Drift: Imagining Literary Distribution. Iowa City, IA: University of Iowa Press.

Joel T. Cramer Nutrition and Health Sciences

Author, with Terry J. Housh, Joseph P. Weir, Travis W. Beck, Glen O. Johnson. Laboratory Manual for Exercise Physiology, Exercise Testing, and Physical Fitness. Scottsdale, AZ: Holcomb Hathaway Publishers, Inc. (now Taylor Francis Publishers).

Kwame Dawes English

Author. City of Bones. Evanston, IL: Northwestern University Press.

Robert Denicola Law

Author, with Ralph Brown. Copyright, Unfair Competition, and Related Topics Bearing on the Protection of Works of Authorship (12th Ed.). St. Paul, MN: Foundation Press.

Robert F. Diffendal, Jr. (emeritus)

Author. *Great Plains Geology*, Discover the Great Plains Series. Lincoln, NE: University of Nebraska Press.

Wheeler Winston Dixon English

Author, with Richard Graham. A Brief History of Comic Book Movies. Cham, Switzerland: Palgrave Macmillan.

Cheryl D. Dunn Agronomy and Horticulture

Author, with Mitchell B. Stephenson, James Stubbendieck. Common Grasses of Nebraska: Rangeland, Prairie, Pasture (Including Grass-Like Plants). Lincoln, NE: University Printing.

Editor, with Mitchell B. Stephenson, James Stubbendieck. Common Forbs and Shrubs of Nebraska: Rangeland, Prairie, and Pasture. Lincoln, NE: University Printing.

Richard Edwards Center for Great Plains Studies/Economics

Author, with Jacob K. Friefeld and Rebecca S. Wingo. *Homesteading the Plains: Toward a New History*. Lincoln, NE: University of Nebraska Press.

Galen Erickson Animal Science

Editor. 2017 Beef Cattle Report. Lincoln, NE: University Printing.

Rodrigo Franco Veterinary Medicine and Biomedical Sciences

Editor. Oxidative Stress and Redox Signalling in Parkinson's Disease. London, UK: Royal Society of Chemistry.

Iker Gonzlez-Allende Modern Languages and Literatures

Editor. El Exilio Vasco: Estudios en Homenaje al Profesor José Ángel Ascunce Arrieta [The Basque Exile: Studies in Homage to Professor Jose Angel Ascunce Arrieta]. Bilbao, Spain: University of Deusto Press.

Richard L. Graham University Libraries/English

Author, with Wheeler Winston Dixon. A Brief History of Comic Book Movies. Cham, Switzerland: Palgrave Macmillan.

Geology

Timothy Hemsath

Architecture Program

Author, with Kaveh Alagheh Bandhosseini. *Energy Modeling in Architectural Design*. New York, NY: Routledge.

Matthew L. Jockers

English

Author, with Jodie Archer. *The Bestseller Code*. New York, NY: St. Martins Press.

Valerie Jones Advertising

Editor, with Ming Wang. The New Advertising: Branding, Content and Consumer Relationships in the Data-driven Social Media Era. Santa Barbara, CA: ABC-CLIO, LLC.

David Karle Architecture

Author, with Sarah Thomas Karle. Conserving the Dust Bowl: The New Deal's Prairie States Forestry Project. Baton Rouge, LA: Louisiana State University Press.

Sarah Thomas Karle Landscape Architecture

Author, with David Karle. Conserving the Dust Bowl: The New Deal's Prairie States Forestry Project. Baton Rouge, LA: Louisiana State University Press.

Casev Rvan Kelly

Communication Studies

Author. Food Television and Otherness in an Age of Globalization. Lanham, NJ: Rowan & Littlefield.

Stevan Knezevic Northeast Research and Extension Center

Editor. 2017 Guide for Weed, Disease, and Insect Management in Nebraska. Lincoln, NE: University Printing.

Peter M. Lefferts

Glenn Korff School of Music

Editor, with William J. Summers. *English Thirteenth Century Polyphony: A Facsimile Edition*. London, UK: Stainer & Bell for the British Academy.

Brian D. Lepard Law

Editor. Reexamining Customary International Law. New York, NY: Cambridge University Press.

Carole Levin History

Editor, with Anna Riehl Bertolet, Jo Eldridge Carney. A Biological Encyclopedia of Early Modern Englishwomen: Exemplary Lives and Memorable Acts, 1500-1650. New York, NY: Routledge, Taylor and Francis Group.

John W. Maag Special Education and Communication Disorders

Author. Behavior Management: From Theoretical Implications to Practical Applications. Boston, MA: Cengage.

Max Perry Mueller

Classics and Religious Studies

Author. Race and the Making of the Mormon People. Chapel Hill, NC: The University of North Carolina Press.

Glenn E. Nierman Glenn Korff School of Music

Author, with Lynn Tuttle, Kelly Parkes, Johanna Siebert, Rebecca Wilhelm. Workbook for Building and Evaluating Effective Music Education in Ensembles. Reston, VA: National Association for Music Education.

Author, with Lynn Tuttle, Kelly Parkes, Johanna Siebert, Rebecca Wilhelm. *Workbook for Building and Evaluating Effective Music Education in General Music*. Reston, VA: National Association for Music Education.

Gwen C. Nugent

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

Editor, with Gina M. Kunz, Susan M. Sheridan, Todd A. Glover, Lisa L. Knoche. Rural Education Research in the United States: State of the Science and Emerging Directions. Cham, Switzerland: Springer International.

Erica Rvherd

Architectural Engineering

Editor, with David T. Bradley, Lauren M. Ronsse. *Worship Space Acoustics: 3 Decades of Design*. New York, NY: Springer.

Michael J. Scheel

Educational Psychology

Author, with Collie W. Conoley. *Goal Focused Positive Psychotherapy:* A Strengths Oriented Approach. New York, NY: Oxford University Press.

David J. Sellmver

Nebraska Center for Materials and Nanoscience/ Physics and Astronomy

Editor, with Yanglong Hou. Magnetic Nanomaterials: Fundamentals, Synthesis and Applications. Weinheim, Germany: Wiley-VCH.

Esti Sheinberg

Glenn Korff School of Music

Editor, with Anatoly Milka, translated by Marina Rirzarev. *Rethinking J.S.Bach's The Art of Fugue*. London and New York, NY: Routledge.

Greg A. Somerville

School of Veterinary Medicine and Biomedical Sciences

Editor. Staphylococcus: Genetics and Physiology. London: Caister Academic Press.

Joseph Starita

Journalism

Author. A Warrior of the People: How Susan LaFlesche Overcame Gender and Racial Inequality to Become America's First Indian Doctor. New York, NY: St. Martin's Press.

Jeffrey R. Stevens

Psychology

Editor. Impulsivity: How Time and Risk Influence Decision Making. New York, NY: Springer.

Julie Thomas Teaching, Learning and Teacher Education

Author, with Donna Farland-Smith. Eureka! Grade 3-5 Science Activities and Stories. Arlington, VA: NSTA Press.

Laura Thompson Southeast Research and Extension District

Editor, with Keith Glewen. Nebraska Extension On-Farm Research, 2016 Growing Season Results. Lincoln, NE: University Printing.

Jerry D. Volesky West Central Research and Extension Center

Editor, with Nadine Bishop, Bethany Johnston, Jess Milby, Jeff Nichols, Mitch Stephenson, Troy Walz, Sara Winslow, Kristin Dickinson. *Range Judging Handbook and Contest Guide for Nebraska*. Lincoln, NE: University Printing.

Stacey Waite

English

Author. Teaching Queer: Radical Possibilities for Writing and Knowing. Pittsburgh, PA: University of Pittsburgh Press.

Yigi Yang

Textiles, Merchandising and Fashion Design/ Biological Systems Engineering

Editor, with Jianyong Yu, Helan Xu, Baozhong Sun. *Porous Lightweight Composites Reinforced with Fibrous Structures*. Berlin, Germany: Springer-Verlag GmbH Germany.

Recognitions and Honors

Faculty who have been elected to honor academies or who have received national or international honors or awards July 1, 2016–June 30, 2017

Submitted by faculty, chairs/heads or deans

Joseph S. Francisco

Chemistry/Dean of the College of Arts and Sciences

National Academy of Sciences

Brian Larkins Agronomy and Horticulture/

Associate Vice Chancellor for Life Sciences

National Academy of Sciences

lames Van Etten

Plant Pathology

National Academy of Sciences

Kathleen Anderson

Animal Science

2017 ESS Fellow Award, Equine Science Society

Katherine Ankerson

Architecture

Fellow, Interior Design Educators Council

Christos Argyropoulos

Electrical and Computer Engineering

Fellow, Office of Naval Research

Young Scientist Award, International Union of Radio Science

Larry Berger

Animal Science (emeritus)

Distinguished Alumnus Award, Kansas State University Department of Animal Science and Industry

Christopher R. Bilder

Statistics

Fellow, American Statistical Association

Kenneth Bloom

Physics and Astronomy

Fellow, American Physical Society

Allison Bonander

Communication Studies

Outstanding New Coach Award, American Forensic Association

Dawn O. Braithwaite

Communication Studies

Namesake of the Dawn O. Braithwaite Award for Qualitative Research. Central States Communication Association

Edgar Cahoon

Biochemistry

Honorary Doctorate, Swedish University of Agricultural Sciences Faculty of Landscape Architecture, Horticulture and Crop Production Science

Fellow, American Society of Plant Biologists

Les Carlson

Marketing

Fellow, American Academy of Advertising

Kenneth Cassman

Agronomy and Horticulture (emeritus)

Highly Cited Researcher 2016, Clarivate Analytics

Katherine M. Castle

Communication Studies

Pearson Award for Innovation in Teaching with Technology, Association for Business Communication

Hena Chen

Supply Chain Management and Analytics

Outstanding Paper in Air Transportation, Institute for Operations Research and the Management Sciences

Thomas Clemente

Agronomy and Horticulture

Crop Science Research Award, Crop Science Society of America

Archie Clutter

Agricultural Research Division

Rockefeller Prentice Memorial Award in Animal Breeding and Genetics, American Society of Animal Science

Matt Cohen

Δς.

Fellowship, National Endowment for the Humanities

Andrea Cupp

Animal Science

English

Animal Physiology and Endocrinology Award, American Society of Animal Science

Dawne Y. Curry

History/Ethnic Studies

U.S. Fulbright Scholar Award, U.S. Department of State

Jennifer A. Davidson Economics

Rising Star Award, Council for Economic Education and National Association of Economic Educators

National Business Person of the Year, Nebraska Future Business Leaders of America

Kwame Dawes English

Gold Medal in Writing/Publishing, Independent Publisher Book Awards

Jeffrey L. Day Architecture Program/
Landscape Architecture

The Best Things America Built in 2016, with E.B. Min, for the design of Omaha's Blue Barn Theater, Slate.com

Best in Category Award of Excellence: Design as Interior, Interior Design Educators Council

Outdoor Lighting Design Illumination Award: Special Citation for Use of Light as a Beacon that Enhances the Community Culture, Illuminating Engineering Society

Bedross Der Matossian History

Outstanding Book Award 2013-2015, Society for Armenian Studies

Angela Dietsch Special Education and Communication Disorders

Award for Early Career Contributions in Research, American Speech Language Hearing Association

David DiLillo Psychology

Exceptional Mentor, Association of Behavioral and Cognitive Therapies

Wayne Drummond Architecture (emeritus)

Honorary Member, American Society of Landscape Architects

Patrick Dussault Chemistry

Fellow, American Association for the Advancement of Science

Sebastian Elbaum Computer Science and Engineering

Distinguished Member, Association of Computing Machinery

Roger Elmore Agronomy and Horticulture

Fellow, Crop Science Society of America

Agronomic Education and Extension Award, American Society of Agronomy

Ronald Faller Civil Engineering

Best Overall Paper Award (with Cody Stolle, Karla Lechtenberg and T. Yim), International Roadside Safety Conference, Transportation Research Board

Practical Paper Award (with Scott Rosenbaugh and Robert Bielenberg), International Roadside Safety Conference, Transportation Research Board

Best New Innovation Paper Award (with Karla Lechtenberg, Jennifer Schmidt, Ana Guajardo, Robert Bielenberg, John Reid and E. Emerson), International Roadside Safety Conference, Transportation Research Board

Shane Farritor Mechanical & Materials Engineering

Fellow, National Academy of Inventors

Christina Fielder Arts and Sciences

Outstanding Advising Administrator Award, NACADA: The Global Community for Academic Advising

Cory Forbes School of Natural Resources

SENCER Leadership Fellow, National Center for Science and Civic Engagement

Bill Frakes Journalism

Grand Prize for journalism student project, "The Wounds of Whiteclay: Nebraska's Shameful Legacy" (faculty advisor), Robert F. Kennedy Journalism Awards

Chuck Francis Agronomy and Horticulture

Educator Award, North American Colleges and Teachers of Agriculture

Joseph S. Francisco Chemistry

Honorary Professor, Beijing University for Chemical Technology

Sherilyn C. Fritz Earth and Atmospheric Sciences

Tage Erlander Visiting Professorship, Swedish Research Council

Dana Fritz School of Art, Art History and Design

Artist Residency, Brush Creek Foundation for the Arts, Saratoga, Wyoming

Timothy Gay Physics and Astronomy

Speaker of the Council of Representatives, American Physical Society

Jim Gentry Marketing

George Fisk Award for the Best Conference Paper, 2016 Macromarketing Conference, Macromarketing Association

Konstantinos Giannakas Agricultural Economics

Publication of Enduring Quality Award, Canadian Agricultural Economics Society

Alisa Gilmore Electrical and Computer Engineering

Innovator Award, Empowerment Network

Doug Golick Entomology

Innovative Teaching Award, Association of Public and Land-grant Universities

Ronnie Green Chancellor

Morrison Award, American Society of Animal Science

4-H Luminary, National 4-H Council

Mark A. Griep Chemistry

Helen M. Free Award for Outstanding Public Outreach, American Chemical Society

Frederick C. Luebke Award, Center for Great Plains Studies

Dee Griffin Veterinary Medicine and Biomedical Sciences

Industry Leadership Award, Cattle Feeders Hall of Fame

Jason Griffiths Architecture

Regional Excellence in Wood Design Award (co-winners include his design studio students), Woodworks

Dale M. Grotelueschen

School of Veterinary Medicine and Biomedical Sciences/

Great Plains Veterinary Educational Center

Award of Excellence, American Association of Bovine Practitioners

Alexei Gruverman Physics and Astronomy

Ferroelectrics Recognition Award, IEEE Ultrasonics, Ferroelectrics and Frequency Control Society

Linxia Gu Mechanical & Materials Engineering

Fellow, American Society of Mechanical Engineers

Christopher R. Gustafson

Agricultural Economics

Best Article, Journal of the International Association of Agricultural Economists

Frauke Hachtmann Journalism

Alumni Master Award, University of Nebraska Athletic Department

Deb Hamernik

Agricultural Research Division/ Animal Science

English

President, American Society of Animal Science

Ted Hamann Teaching, Learning and Teacher Education

Equity Fellow, Midwest and Plains Equity Assistance Center

Michael Hanus Advertising and Public Relations

Outstanding Dissertation Award, Human Communication and Technology Division, National Communication Association

Fellow, Visiting Professor Program, Advertising Educational Foundation

Terry Hejny Nebraska LEAD Program

Agri-Award, Triumph of Agriculture Exposition Farm and Ranch Machinery Show

Mary Anne Holmes Earth and Atmospheric Sciences (emeritus)

Fellow, American Association for the Advancement of Science

Melissa Homestead English

Fellow, Summer Stipend, National Endowment for the Humanities

Orison Fiction Prize, Orison Books

Gabriel Houck

Jinsong Huang Mechanical & Materials Engineering

Highly Cited Researcher 2016, Clarivate Analytics

Suat Irmak Biological Systems Engineering

Best Paper Award in *Journal of Irrigation and Drainage Engineering*, Irrigation and Drainage Council of the American Society of Civil Engineers and Environmental and Water Resources Institute

Educational Aids Blue Ribbon Award, American Society of Agricultural and Biological Engineers

Amit Jhala Agronomy and Horticulture

Early Career Outstanding Weed Scientist Award, Weed Science Society of America

Lisa Karr Animal Science

Corbin Companion Animal Biology Award, American Society of Animal Science

Casey Ryan Kelly Communication Studies

Early Career Award, Rhetorical and Communication Theory Division of the National Communication Association

Diane Hope Outstanding Book Award, Visual Communication Division of the National Communication Association

Imran Khan Marketing

Best Paper in Logistics and Supply Chain Management Track, Society for Marketing Advances Conference

Dane Kiambi Advertising and Public Relations

Fellow, Plank Center for Leadership in Public Relations

Kathleen J. Krone Communication Studies

Fredric M. Jablin Award for Outstanding Contributions to Organizational Communication, International Communication Association, Organizational Communication Division

Article of the Year, Management Communication Quarterly

Karen Kunc School of Art, Art History and Design

Sponsor's Prize, Hida-Takayama International Contemporary Woodblock Prints Triennial, Takayama, Japan

Second Prize, Book as Art 5.0: Illuminated, Decatur Art Alliance, Decatur, Georgia

Rebecca Lai Chemistry

Local Section Outreach Volunteer of the Year Award, American Chemical Society's Committee on Community Activities

Joe Luck Biological Systems Engineering

Educator/Researcher of the Year, Precision Ag Institute

Larry W. Turner Young Extension Professional Award, American Society of Agricultural and Biological Engineers

Fred Luthans Management (emeritus)

Lifetime Achivement Award, Organizational Behavior Division of the Academy of Management

Andre F. Maciel Marketing

Best Special Session Award, Consumer Culture Theory Conference Sidney J. Levy Award, Consumer Culture Theory Consortium

Martha Mamo Agronomy and Horticulture

Soil Science Education and Extension Award, Soil Science Society of America

Maria Marron College of Journalism and Mass Communications

L.J. Hortin Distinguished Alumna Award, E.W. Scripps School of Journalism at Ohio University

Pat McBride New Student Enrollment

Kansas Monk Award, Benedictine College

Julia McQuillan Sociology

Distinguished Feminist Lecturer, Sociologists for Women in Society

Colleen E. Medill Law

Member of the Advisory Council on Welfare Benefit and Pension Plans, United States Department of Labor

Aleidine J. Moeller Teaching, Learning and Teacher Education/ Modern Languages and Literatures

Yunshuan Scholar, Guongdong University, China

Amelia M.L. Montes English/The Institute for Ethnic Studies

Fulbright Scholar Award for Research, Writing, and Teaching at the University of Novi Sad, Serbia, Fulbright Organization

Kaci Nash Libraries

Best article published in Civil War History in 2016 (with William G. Thomas and Robert Shephard), John T. Hubbell Prize

Elizabeth Niehaus Educational Administration

Excellence in International Research Award, American College Personnel Association

Outstanding Service to the International Community Award, American College Personnel Association

Terri Norton Construction Engineering

Innovator Award, Empowerment Network

Fulbright Scholar Award, Council for International Exchange of Scholars

Chigozie Obioma English

Nebraska Best Book Award, Fiction Category, Nebraska Center for the Book

Best New Author Award, Go on Girl! National Bookclub

Kristen Olson Sociology

Collaborative Research Award, International Journal of Market Research

Lisa Pennisi Natural Resources

Spirit of Service Award, Center for Civic Engagement

Julie Peterson Entomology/West Central Research and Extension Center

Young Alumni Award, Ohio Wesleyan University

Dan Piatkowski Community and Regional Planning

Excellence in Safety Research for Active Living Award, Centers for Disease Control and Prevention

Gary Pickard School of Veterinary Medicine
and Biomedical Sciences

Fellow, American Association for the Advancement of Science

Robert Powers Chemistry

Fellow, American Association for the Advancement of Science

Kenneth Price English/Center for Digital
Research in the Humanities

President, Society for Textual Scholarship

Prahalada Rao Mechanical & Materials Engineering

Yoram Koren Outstanding Young Manufacturing Engineer, Society of Manufacturing Engineers

Mark R. Riley Biological Systems Engineering

Fellow, American Institute of Medical and Biological Engineers

Gregg Rothermel Computer Science and Engineering

Fellow, Institute of Electrical and Electronics Engineers

Raiib Saha Chemical and Biomolecular Engineering

Best Poster, Summer School for Chemical Engineering Faculty, American Society of Engineering Education Philip Sapirstein School of Art, Art History and Design/ Center for Digital Research in the Humanities

Loeb Classical Library Foundation Fellowship, Harvard University

Daniel P. Schachtman Agronomy and Horticulture

Fellow, American Society of Plant Biology

Rebekka Schlichting Journalism

Grand Prize for Journalism student project, "The Wounds of Whiteclay: Nebraska's Shameful Legacy" (faculty adviser), Robert F. Kennedy Journalism Awards

Amy Millmier Schmidt Biological Systems Engineering/ Animal Science

Standards Development Award, American Society of Agricultural and Biological Engineers

Jennifer Schmidt Civil Engineering

Best New Innovation Paper Award (with Karla Lechtenberg, Ronald Faller, Ana Guajardo, Robert Bielenberg, John Reid and E. Emerson), Transportation Research Board

Hamid Sharif Electrical and Computer Engineering

Fellow, Institute of Electrical and Electronics Engineers

Chunawook Sim Civil Engineering

Daniel J. Penny Research Fellowship, Precast/Prestressed Concrete Institute

Jolene D. Smyth Sociology

Warren J. Mitofsky Innovators Award, American Association for Public Opinion Research

Matthew Spangler Animal Science

Continuing Service Award, Beef Improvement Federation

Joseph Starita Journalism

Chief Standing Bear Humanitarian Award, Nebraska Commission on Indian Affairs

Grand Prize for Journalism student project, "The Wounds of Whiteclay: Nebraska's Shameful Legacy" (faculty adviser), Robert F. Kennedy Journalism Awards

Jay Storz Biological Sciences

Honorary Professor, Aarhus University of Science and Technology, Denmark

Richard K. Sutton

Agronomy and Horticulture/ Landscape Architecture Program

Honor Award for Research, American Society of Landscape Architects

Daniel Tannenbaum

Fonnomics

Early Career Research Award, W.E. Upjohn Institute for Employment Research

Pat Tetreault

LGBTOA+ Resource Center

Alumni of Distinction Award, Kansas State University

William G. Thomas III

History

Fellowship, John Simon Guggenheim Memorial Foundation

Best article published in Civil War History in 2016 (with Kaci Nash and Robert Shephard), John T. Hubbell Prize

Bruce Thorson

Journalism

Best of the West, Associated Press and National Press Photographers

Julie Tippens

Child. Youth and Family Studies

Trocaire Leadership Award, Gwynedd Mercy Academy High School Alumnae Board

Christopher Tuan

Civil Engineering

T.C. Graham Prize, Association for Iron and Steel Technology

Joseph Turner

Mechanical & Materials Engineering

Outstanding Paper, American Society of Nondestructive Testing

Chervl Turner

Center on Children. Families and the Law

Trauma-Informed Care Pioneer in Education, Beyond Consequences Institute

Mark van Rooien

Philosophy

Laurence S. Rockefeller Visiting Fellow in the University Center for Human Values, Princeton University

Fellow, Summer Stipend, National Endowment for the Humanities

Shashi Verma

Natural Resources (emeritus)

Highly Cited Researcher 2016, Clarivate Analytics

Ana M. Vlez

Entomology

Young Professors Class of 2016, DuPont

David von Kampen

Glenn Korff School of Music

Winner of ORTUS International New Music Competition, KHORIKOS Ensemble (a cappella choir)

Mehmet Can Vuran

Computer Science and Engineering

Highly Cited Researcher 2016, Clarivate Analytics

Hope Wabuke

English

2017 Poetry Fellowship, National Endowment for the Arts

Matthew Waite

Inurnalism

Hall of Fame, Nebraska Press Association

LuAnn Wandsnider

Anthropology

Presidential Recognition Award, Society for American Archaeology

Jack Whittier

Panhandle Research and

Extension Center/Animal Science

Distinguished Service Award, Western Section of American Society of Animal Science

Mary S. Willis

Nutrition and Health Sciences

Fellow, American Association for the Advancement of Science

Inhn Woollam

Electrical and Computer Engineering

R.F. Bunshah Award, International Conference on Metallurgical Coatings and Thin Films

David Yuill

Durham School of Architectural Engineering and Construction/Architectural Engineering

New Investigator Award, American Society of Heating, Refrigerating and Air-conditioning Engineers

Xiao Cheng Zeng

Chemistry

Surfaces and Interfaces Award, Royal Society of Chemistry

Tian Zhang

Civil Engineering

State of the Art Award, American Society of Civil Engineers

Garv Zoubek

Southeast Research and Extension Center (emeritus)

Hall of Fame Award, National Association of County Agricultural Agents

Glossary of Federal Agency Abbreviations

				120	motitate of Eddodton ocionoco	
			EPA	EPA Environmental Protection Agency		
DHS	S Department of Homeland Security		EPSCoR	Experimental Program to Stimulate Competitive Research		
DHHS	Department of Health and Human Services		IMLS	Institute o	Institute of Museum and Library Services	
	ACF CDC	Administration for Children and Families Centers for Disease Control	NASA	National A	National Aeronautics and Space Administration	
	NIOSH	National Institute for Occupational Safety	NEA	National Endowment for the Arts		
		and Health SAMHSA Substance Abuse and Mental Health Services Administration Department of Commerce		National Endowment for the Humanities		
DOC	Departm NIST			National Institutes of Health FIC Fogarty International Center NCI National Cancer Institute NCRR National Center for Research Resources NEI National Eye Institute NHLBI National Heart, Lung and Blood Institute NIAID National Institute on Allergy & Infectious Diseases NIBIB 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 & Communication Disorders NIDDK National Institute of Diabetes, Digestive & Kidney Disease NIEHS National Institute of Environmental Health Sciences NIGMS National Institute of General Medical Sciences NIMH National Institute of Neurological Disorders & Stroke		
DoD	NOAA National Oceanic & Atmospheric Administration Department of Defense AFOSR Air Force Office of Scientific Research ARO Army Research Office DARPA Defense Advanced Research Projects Agency DTRA Defense Threat Reduction Agency DURIP Defense University Research Instrumentation Program JVAP Joint Vaccine Acquisition Program MDA Missile Defense Agency ONR Office of Naval Research SERDP Strategic Environmental Research and					
	USAMRN	Development Program AMRAA US Army Medical Research Acquisition Activity AMRMC-TATRC US Army Medical Research and Materiel Command-Telemedicine and Advanced Technology Research Center				
DOE	Department of Energy ARPA-E Advanced Research Projects Agency-Energy		NSF	National	National Science Foundation	
	NETL	, , , , , , , , , , , , , , , , , , , ,		United States Agency for International Development		
DOI	Department of Interior FWS Fish and Wildlife Service GS Geological Survey		USDA	United States Department of Agriculture AFRI Agriculture and Food Research Initiative ARS Agricultural Research Service		
DOJ	Departm NIJ	Department of Justice NIJ National Institute of Justice		FNS Food and Nutrition Service FS Forestry Service NASS National Agricultural Statistics Service NIFA National Institute for Food and Agriculture NRCS Natural Resources Conservation Service OCE Office of the Chief Economist	Food and Nutrition Service Forestry Service National Agricultural Statistics Service	
DOL	Department of Labor					
DOS	Departm BECA	partment of State CA Bureau of Educational and Cultural Affairs				
DOT	Departm FAA FHWA	ent of Transportation Federal Aviation Administration Federal Highway Administration				

Research and Innovative Technology Administration

ED

Department of Education

Institute of Education Sciences

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