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Internal Funding Newsletter, Academic Year 2013-2014

UNO Office of Research and Creative Activity
University of Nebraska at Omaha

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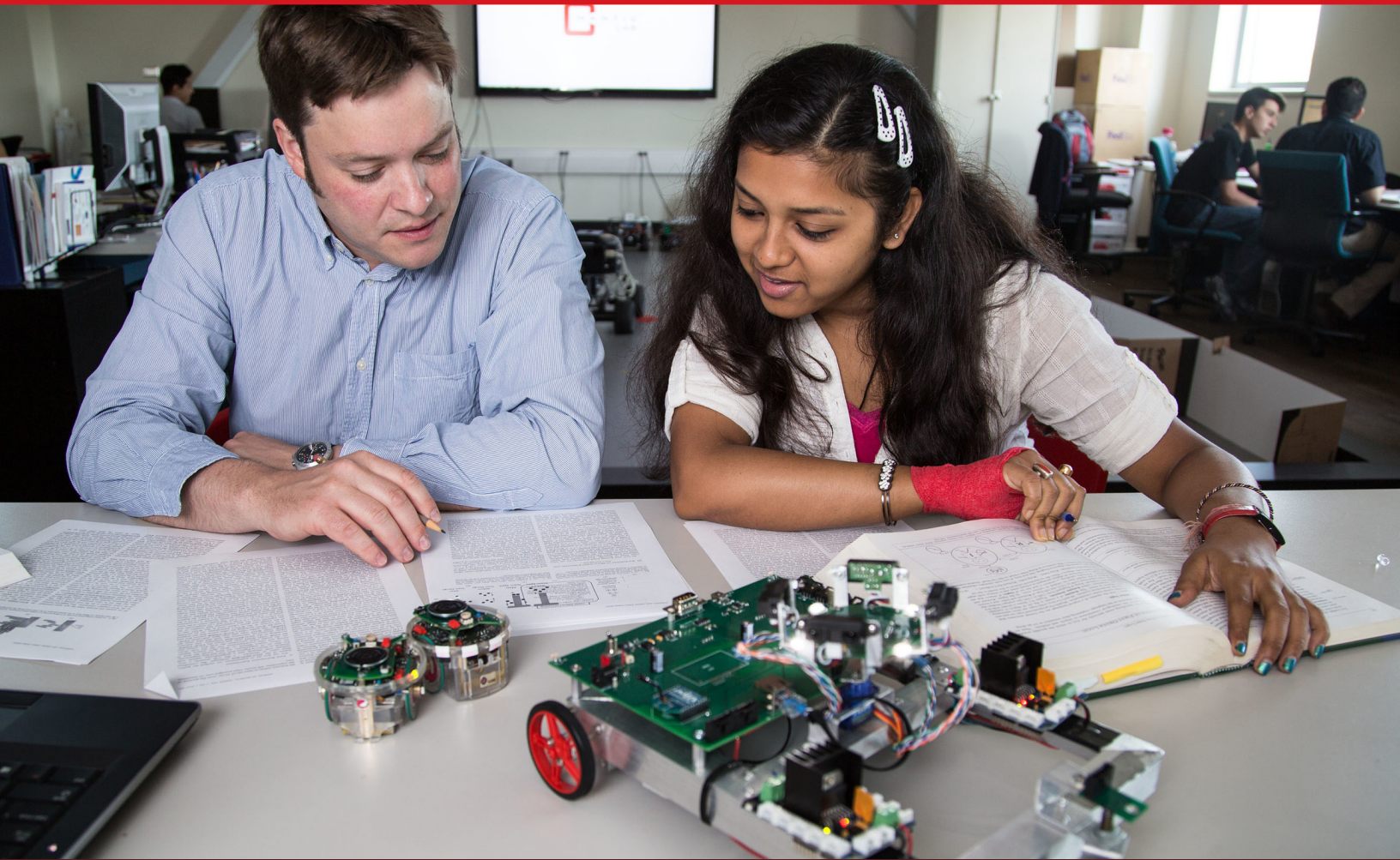
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OFFICE OF RESEARCH AND CREATIVE ACTIVITY INTERNAL FUNDING NEWSLETTER



ACADEMIC YEAR 2013-2014

UNIVERSITY OF
Nebraska
Omaha





Scott Snyder with
Japanese Minister of Defense
Itsunori Onodera

Dear Colleagues and Friends,

UNO is committed to fostering an environment in which the scholarly activities of our students and faculty can thrive. The campus has created and invested in a wide range of funding programs to support faculty and student research and creative activity. During the last academic year, these programs provided \$795,900 for projects as diverse as the interests of the UNO community: international explorations of algebra, studies of the performance of tango music, genetic analyses of Parkinson's disease, and cutting edge projects incorporating data analytics.

Students involved in these programs get a once-in-a-lifetime opportunity to engage with expert faculty mentors as they learn how to explore the world through research and create new knowledge, new art, and new music. The FUSE program is expanding this year to include a supplement to support international travel for FUSE projects. Students will carry their experiences on campus, in the community, and around the world with them into their careers and throughout their lives.

Support for faculty provides opportunities to create new collaborations at home and abroad in a time when academic scholarship is more collaborative than ever before. The results of faculty projects are used to solve real-world problems and are presented in the peer-reviewed literature and at conferences, exhibitions, and performances around the globe. Internal funding provides the opportunity to attract resources from outside the university to make scholarly activities sustainable over the long term.

We look forward to working with you over the next year as you explore your interests and contribute your talents to UNO.

Best regards,

Scott D. Snyder, Ph.D.

Associate Vice Chancellor

Chief Research Officer

Office of Research and Creative Activity

UNIVERSITY OF
Nebraska
Omaha



2013-2014 Internal Funding Awardees Faculty Awards

FUND FOR THE INVESTMENT IN THE RESEARCH ENTERPRISE (FIRE)

FIRE grants will support the collection of preliminary data/proof of concept for faculty projects that demonstrate a high potential for attracting substantial extramural funding (>\$250,000 in direct costs over the term of the grant). Awards of \$20,000 are available to single investigator FIRE proposals, and multi-investigator, collaborative proposals may request up to \$35,000.

Last	First	Co-PI(s)	College	Dept.	Project Title	Award
Allen	Joseph	Reiter-Palmon	AS	PSYC	Enhancing Firefighter Safety Via Crew-Level After-Action Reviews: Investigation of Decision to Hold After-Action Reviews	\$35,000
Chundi	Parvathi	Subramaniam	IST	CS	DRSI: Distortion Repair and Sight Improvement for Low Vision Age-Related Macular Degeneration Patients	\$35,000
Clinkinbeard	Samantha	Anderson	CPACS	CJUS	College Binge Drinking and its Consequences: An On- and Off-line Investigation of Social Identity, Normative Perceptions, and Behavior	\$34,733
Conrad	John		AS	CHEM	Kinetic Determinates of the Reaction Catalyzed by 4HPA-1H from <i>Delficia acidovorans</i>	\$20,000
Dasgupta	Prithviraj	Bhowmick	IST	CS	CONRAD: A Context-Aware Real Time Autonomous Decision Making System	\$34,921
Wolfenbarger	L. LaReesa	Swift	AS	BIOL	Minding the empirical gaps in avian demography to determine the relative importance of survival, emigration and fecundity on the adaptive capacity of populations	\$35,000
Total FIRE Awards:						\$194,654





FACULTY RESEARCH INTERNATIONAL (FRI)

The Office of Academic and Student Affairs (OASA) sponsors the Faculty Research International (FRI) grant. FRI grants will support the establishment of new research and creative activity partnerships among UNO faculty and international collaborators. Awards of up to \$5,000 are available to individual UNO faculty members to support travel-related expenses for UNO faculty, affiliated UNO graduate students, and/or their international partners.

Last	First	College	Dept.	Country/Region	Project Title	Award
Allen	Joseph	AS	PSYC	Netherlands	The Science of Meetings at Work	\$4,174
Blair	Robert	CPACS	PA	Norway	A Comparative Study of Collaborative Mechanisms for Inter-Local Cooperation: A Discussion Among Norwegian and Nebraska City Administrators	\$4,930
Chen	Yu-Che	CPACS	PA	China	Building Research Partnership for Technology-enabled Collaborative Public Governance	\$8,926
Elder	Griff	AS	MATH	Germany	Orders in Algebras: New collaboration with Dr. Cornelius Greither, Universität der Bundeswehr München	\$5,000
Fruhling	Ann	IST	SI2	United Kingdom	Fostering New Partnerships in Research to Evaluate Data Visualization Systems	\$4,919
Glasser	D. Scott	CCFAM	THTR	Norway and Lithuania	Glasser Invitation as Guest Artist/Teacher to Agder University and Siauliai University	\$2,200
Mukherjee	Mukul	COE	HPER	Ireland	A USA-Ireland partnership to promote research in the area of physical activity in stroke survivors	\$5,000
Reiter-Palmon	Roni	AS	PSYC	United Kingdom	Creativity in Interdisciplinary Science Teams: A Collaboration Perspective	\$5,000
Shultz	Steve	CBA	ECON	Central America	Conducting Water Supply Research with the Center for Research and Training in Tropical Agriculture (CATIE)	\$4,825
Stergiou	Nick	COE	HPER	Czech Republic	A USA-Czech partnership to promote research in the area of gait analysis	\$5,000
Wang	Zhenyuan	AS	MATH	China	Big data, data mining, and decision making	\$5,000
Wolcott	Peter	IST	ISQA	Norway	Application of Digital Technologies to Add Value to Teaching and Learning in a Global Context	\$5,000
Total FRI Awards:						\$59,974

2013-2014 Award for Distinguished Research or Creative Activity: Roni Reiter-Palmon, Psychology

Researchers from the University of Nebraska at Omaha, in collaboration with faculty from the University of Nebraska Medical Center, have published a report that shows millions of emergency room visits a year can largely be prevented if caregivers spent as little as 10 minutes on addressing the causes and solutions to patient falls.

Recently a paper by UNO Department of Psychology professors Roni Reiter-Palmon, Victoria Kennel and Joseph A. Allen, along with UNMC researchers Katherine J. Jones and Anne M. Skinner, was published in the September issue of the *Journal of Occupational and Organizational Psychology*.

The paper, titled "Naturalistic decision making in after-action review meetings," analyzed the addition of a "post-fall huddle" after-action meeting between staff members in 17 hospitals in rural Nebraska. Results showed that holding these meetings, which include members from multiple hospital departments, including nurses, doctors and pharmacists, can decrease the number of falling injuries by as much as 20 percent and reduce falling severity by approximately 30 percent.

The study also looked to see if there was any change in the types of errors that staff members agreed were responsible for the fall: either task directions, personal judgment or coordination of staff members. Results showed that judgment errors were consistently most at fault, but the addition of post-fall huddles helped decrease task-related errors.

"There is never just one cause for a fall," explained Reiter-Palmon, the paper's lead author and director of UNO's Industrial/Organizational psychology graduate program. "It could be due to a change in medication that wasn't communicated to staff, or a nurse member forgetting to put the bed rails up. However, calling attention to those errors allows staff members to keep those issues fresh in their mind and more cautious about how they deal with patients who are at-risk for falls."

According to a 2013 report from the Centers for Disease Control, there can be as many as 2.3 million nonfatal fall injuries each year just among older adults, with as many as 600,000 of them resulting in hospitalizations.

These hospitalizations do not only result in additional costs to the hospital, the patient, or the patient's families, but a particularly dangerous fall could injure someone badly enough to require being moved to an assisted living facility.

"This study has important practical benefits to smaller, rural hospital or care facilities that don't have the same level of funding or staff as similar facilities found in major cities," Reiter-Palmon explained. "Spending just 10 minutes discussing where the errors occurred between departments can save money and even lives."

Reiter-Palmon points out that the addition of post-fall huddles really only works if the staff members believe they hold value. Because of that, the overall concept is made flexible and adaptable to any staff size or type.

"In essence, it doesn't matter how large the organization is, what matters is that you have a way to foster interdisciplinary communication," she said.

Additionally, the study finds that even though there was a decrease in fall severity in utilizing the post-fall huddles, there is still work that organizations can do to help determine and recognize the causes of falls.

Reiter-Palmon adds that a follow up study with the participating hospitals is planned for the near future, as well as expanding the study to larger hospitals in more urban environments.



Contact: University Communications **Phone:** 402.554.2129 **Email:** unonews@unomaha.edu

UNIVERSITY COMMITTEE ON RESEARCH AND CREATIVE ACTIVITY (UCRCA) Faculty Awards

The purpose of UCRCA is to expand the capacity for research and creative activity at UNO. The UCRCA supports all areas, types and disciplines of research and creative activity by pre- and post-tenured faculty at UNO. The committee places special emphasis on seed grant funding for projects potentially leading to external funding and on grants to new faculty to help them establish programs of research/creative activity.

Last	First	Co-PI(s)	College	Dept.	Project Title	Award
Beard	Christine		CCFAM	MUS	South American Concert Tour	\$4,185
Carter	Michelle	Sanchez	IST	ISQA	Exploring Latino Adults' Engagement with Information Technologies and Participation in Information Science & Technology Higher Education Programs	\$4,700
Dickson	Timothy		AS	BIOL	Effects of prairie fire and mowing on soil temperature	\$5,000
Dinkel	Danae		COE	HPER	Exploring staff and girls motivation for physical activity in afterschool programs	\$3,100
DiStefano	Eugenio		AS	FL	The Vanishing Frame: Latin American Culture and Theory in the Post dictatorial Era	\$5,000
Gift	Alan		AS	CHEM	Developing methods for quantifying contaminants in biodiesel	\$5,000
Hagaman	Jessica		COE	SPED	Investigating the perceived needs and roles of new special education teachers: A pilot study	\$5,000
Hagen	James		AS	CHEM	Hybrid BONT Inhibitors	\$5,000
Hayes	James		AS	GEOG/ GEOL	Identifying and Evaluating the Spectral Signature and Classification of Coffee Farms Along the Production Continuum in Columbia	\$5,000
Kolok	Alan		AS	BIOL	Crowd sourced environmental science: The occurrence of atrazine throughout the Mississippi River	\$4,700
Lu	Guoqing		AS	BIOL	Population structure and habitat use of <i>Macrhybopsis chubs</i> in Nebraska	\$5,000
Oyinlade	A. Olu		AS	SOC	A Comprehensive Study of Organizational Commitment	\$4,550
Petrow	Gregory		AS	PSCI	The International Public Opinion of Climate Change	\$5,000
Saltamacchia	Martina		AS	HIST	Building and Financing Medieval Cathedrals in Italy and France	\$5,000
Sanchez	Thomas	Carter	AS	SOC	Exploring Latino Adults' Engagement with Information Technologies and Participation in Information Science & Technology Higher Education Programs	\$4,690
Schaffer	Connie		COE	TED	Impact of Field Experiences on the Perceptions of Pre-service Teachers	\$3,500
Simcoe	Barbara		CCFAM	ART	Honoring Darkness: A Pilgrimage to the Black Madonnas of Italy	\$5,000
Weaver	Adam		AS	PSYC	Emotional Labor among School Psychologists	\$4,500
Total Faculty UCRCA Awards:						\$83,925

2013-2014 Internal Funding Awardees

Student Awards

FUND FOR UNDERGRADUATE SCHOLARLY EXPERIENCES (FUSE)

The Office of Research and Creative Activity (ORCA) announces the Fund for Undergraduate Scholarly Experiences (FUSE). FUSE grants support faculty-mentored undergraduate student research and creative activity. Grants of up to \$2,500 per student are available to UNO undergraduates who will be enrolled through fall semester 2015.

Last	First	Faculty Mentor	College	Dept.	Project Title	Award
Abdulsattar	Ebrahim	Baca	IST	CS	Integration Robotics and Bioinformatics in visualizing the process of forming Amino Acids	\$2,500
Acosta	Jonathan	Strasser	AS	PSYC	Do Differences in Rearing Conditions (Biparental vs Uniparental Care) Influence Immune Function in Zebra Finches?	\$2,500
Bailey	Taylor	Rowen	AS	BIOL	Identification of the Targets of the Antimicrobial Peptide DASamP2 by Isolation of Pseudomonas Mutants with Increased Resistance	\$2,500
Bartlett	Maggie	Davis	AS	BIOL	TaqMan Probe Design for Facilitating in the Amplification and Analysis of Bradyzoite Rhopty Protein and Protein Disulfide Isomerase	\$2,500
Bishop	Natasha	Duran	CCFAM	ART	Futurist Immersion and Scholarly Contributions	\$2,459
Blake	Loren	Harbour	AS	BKST	The United States of Lyncherdom: Will Brown and the Omaha Lynching of 1919	\$2,500
Blanco	Albert	Scherer	AS	PSYC	Generalized Self-Efficacy as a Moderator of Work-School Demands on Burnout and Outcomes for Working College Students	\$2,138
Brown	Jared	Foltz	CCFAM	MUS	A Study in the Performance of Tango Music by Astor Piazzolla on Marimba	\$2,490
Brugman	Carissa	Blankenship	AS	BIOL	Septin modifying proteins in Candida albicans	\$2,500
Campbell	Robert	Reames	AS	HIST	Mycenaean Respect for Minoan Art not People	\$2,500
Cave	Caleb	Davis	AS	BIOL	Detection of Mycoplasma in Human Cell Cultures Using Homology and PCR	\$2,500
Chen	Han	Cutucache	AS	BIOL	Signal Transduction Networks with Caveolin-1 in Chronic Lymphocytic Leukemia	\$2,500
Conrad	Joseph	Co	CBA	ECON	Increasing Market Access for Least Developed Countries: Has the Everything But Arms Initiative Led to an Increase in Trade From LDCs into the EU?	\$2,000
Conroy	Brittany	Cutucache	AS	BIOL	Characterization of Cav1 Signaling on Immune Effort and Suppressor Cells	\$2,000
Cooper	Olajide	Delkamiller	COE	SPED	Effectiveness of Target Language Acquisition Methodology When Used with Spanish Speaking Families with Deaf Children	\$2,500
Corbet	April	Chundi	IST	CS	Determining Severity in Street Harassment Stories	\$2,000
Crum	Isaiah	Davis	AS	BIOL	Development of RNA Primers and TaqMAN probes for Toxoplasma BAG1 and Ribosomal protein S23	\$2,500
Davis	Kasey	Hutt	AS	PHREL	Methodology in Archaeology: International Law and East Jerusalem	\$2,315
Edens	Eric	Mahoney	IST	SI2	Automated Methods for Discovering Web Trackers	\$2,041

FUND FOR UNDERGRADUATE SCHOLARLY EXPERIENCES (FUSE)

Last	First	Faculty Mentor	College	Dept.	Project Title	Award
Egger	Julian	Lu	AS	BIOL	A Bioinformatics System for the Prediction of Genetic Events in Asian Carp Hybridization	\$2,500
Farhat	Yasmine	Kolok	AS	BIOL	Effects of Agrichemicals in the Elkhorn River on Endocrine Function of Adult and Juvenile Female Fathead Minnows (<i>Pimephales promelas</i>)	\$2,500
Fickle	Katherine	Erdogmus	ENG	AENG	Nondestructive Testing and Finite Element Analysis for a Collapsed Temple	\$2,500
Floerke	Johnathan	Hutt	AS	PHREL	Comparative study on theory formation during paradigm shifts	\$2,400
Gadzinski	Benjamin	McNamara	AS	PSCI	The Impact of Sustained Dialogue on International Students' Experiences	\$2,000
Genovesi	Jasmine	Noble	COE	HPER	Physical Activity Intervention Using Point-of-Decision Prompts	\$2,500
Gill	Ryan	Wolfenbarger	AS	BIOL	Effects of urbanization on territoriality of grassland birds in tallgrass prairie fragments	\$2,500
Hachiya	Joel	Rauter	AS	BIOL	Thermal Tolerance	\$2,500
Harlow	Abbie	Bragg	AS	BIOL	A History of the Glacier Creek Preserve	\$2,000
Hedrick	Ceceilia	Dorn	IST	CS	Asynchronous Student-to-Student Discourse Analysis in an Anchored Collaboration Interface	\$2,315
Hendrickson	Brianna	DeVeney	COE	SPED	Engagement Differences for 2-year-olds Identified as Late Talkers	\$2,150
Hester	Amy	Tappich	AS	BIOL	Structural Analysis of Coxsackievirus B3 5'Untranslated Region by In-line Probing	\$2,308
Hochfelder	Benjamin	French	AS	PSYC	Investigating Intra-Species Genetic Variation in the Glucocorticoid Receptor Gene of Marmoset Monkeys	\$2,000
Hochfelder	Colleen	Helikar	AS	MATH	A Computational Framework to Identify Novel Applications for Existing Drugs	\$2,000
Horner	Brad	Elder	AS	MATH	Group Schemes and Cyclic Hopf Orders of Prime Cubed Degree from Local Field Data Attached to Artin-Schreier-Witt Equations	\$2,000
Houser	Dilys	Kellar	AS	BIOL	Taxonomic classification of an endemic Bermudian fern, using molecular and morphological data	\$2,457
Hunter	Savannah	Scherer	AS	PSYC	An Application of the Work-Demands Resources Model to Understanding Working College Student Outcomes	\$2,138
Juarez	Katie	Davis	AS	BIOL	Evaluation of Putative Bradyzoite Transcription Factor Binding Sites of <i>T. gondii</i>	\$2,000
Kanley	Kokou	Hagen	AS	CHEM	Synthesis of Botulinum Neurotoxin Inhibitory Molecules	\$2,500
Khalili-Tari	Sepehr	Santo	AS	PSYC	Differences in inspiration between offspring of bipolar parents and control group	\$2,000
Kinnan	Corey	Coleman	COE	HPER	Needs assessment for health intervention within the community of Long and Short haul truck drivers	\$2,000
Kolbo	Philip	Bales	CCFAM	MUS	Comparison of Percussion Performance Practices of Argentina and the United States	\$2,490
Korf	Byron	Gift	AS	CHEM	Quantifying Glycerol in Biodiesel using Near-Infrared Spectroscopy	\$2,500
Korgan	Whitney	Myers	COE	HPER	Effectiveness of elastic bands in improving kinetic and kinematic measures in various populations	\$2,500

FUND FOR UNDERGRADUATE SCHOLARLY EXPERIENCES (FUSE)

Last	First	Faculty Mentor	College	Dept.	Project Title	Award
Kracl	Karen	Davis	AS	BIOL	Use of Chemical Mutagenesis to Determine Genetic Target of KG8 in <i>Toxoplasma gondii</i>	\$2,500
Krutz	Josiah	Dick	IST	SI2	A More Secure Means of User Authentication through USB Devices	\$2,480
LeFrois	Harrison	Todd	AS	MATH	Khovanov homology and wrap-arounds: looking for patterns	\$2,000
LeFrois	Collin	Schoenbeck	AS	BIOL	The Impact of a Virescent-like Mutation on Carbon and Nitrogen Metabolism in <i>Glechoma hederacea</i>	\$2,500
Lindgren	Jacob	Fruhling	IST	SI2	"White Powder" Is it Harmful or Not?	\$2,500
Manion	Wayne	Davis	AS	BIOL	Transcriptome Assembly of <i>Homalodisca vitripennis</i> (Glassy-winged Sharpshooter)	\$2,500
Mapes	Madison	Gift	AS	CHEM	The Use of Polymers to Inhibit the Hydrate Transformation of Nitrofurantoin	\$2,500
McClellan	Roni	Kolok	AS	BIOL	Spatial occurrence of the herbicide atrazine in the Mississippi River: Can citizen scientists collect the data?	\$2,500
O'Connell	Claire	Baca	IST	CS	Opportunistic Competition and Cooperation in Two-Robot Teams	\$2,500
Olree	Elizabeth	Maher	AS	GEOG/ GEOL	Stratigraphic Analysis of Half Grabens in White River Group of NW South Dakota	\$2,500
Pier	Christa	Morris	CCFAM	ART	Louis Grell: The Lost Murals	\$2,500
Poe	Marissa	Sollars	AS	PSYC	Plasticity in the Developing Taste System (Circumvallate Papilla Morphology)	\$2,500
Pulfer	Andrew	Helikar	AS	MATH	Dynamical system analysis of a computational model of signal transduction in CD4+ T cells during HIV infection	\$2,500
Ranjit	Bina	Blankenship	AS	BIOL	Co-localization analysis of septin-binding proteins in <i>Candida albicans</i>	\$2,500
Reyes	Alicia	Rauter	AS	BIOL	Energy Demands of Reproduction in Burying Beetles	\$2,500
Rich	Grace	Helikar	AS	MATH	Using computational modeling to investigate potential application in combinatorial drug therapies	\$2,500
Riley	John	Kreiling	AS	CHEM	Characterization of Protein Association Domains of the Man6P/IGF2 Receptor	\$2,500
Ross	Chelsea	Matthews	AS	MATH	Effects of 3D video gaming on Visual Spatial awareness	\$2,450
Rowe	Jean Marie	Morris	CCFAM	ART	A Technical Study of "Madonna and Child with Saints Catherine and Agnes"	\$2,500
Salinas	Luis	Novikov	AS	FL	American-Russian Language Exchange	\$2,500
Shea	Kori	Kellar	AS	BIOL	Taxonomic classification and natural history of a population of endangered <i>Cypripedium</i> orchids in eastern Nebraska	\$2,500
Thomas	Kaitlin	Ford	CCFAM	MUS	Building Well Rounded Student Musicians from Adolescence to Adulthood	\$2,150
Toth	Susan	Sollars	AS	PSYC	Orally Administered Capsaicin Effects on Rat Taste System Across Development (Behavioral Time Course, Saccharin versus Sucrose)	\$2,500
Tweedy	Brittney	Kreiling	AS	CHEM	Protein Association Domains of the Man6P/IGF2 Receptor	\$2,500

FUND FOR UNDERGRADUATE SCHOLARLY EXPERIENCES (FUSE)

Last	First	Faculty Mentor	College	Dept.	Project Title	Award
Valquier	Cristian	Conrad	AS	CHEM	Initial Characterization of 4HPA-1H	\$2,496
Wahba	Nadiyah	Strasser	AS	PSYC	Corticosterone as an Indicator of Developmental Stress Resulting from Uniparental vs. Biparental Rearing Conditions in Mature Zebra Finches (<i>Taeniopygia guttata</i>)	\$2,500
White	Sara	Wood	AS	HIST	Probate Inventories: A Window into the Lives of Free African American Men and Women before the Civil War	\$2,320
Wittler	Katherine	DeVeney	COE	SPED	Test-Retest Reliability of Independent Phonological Measures of 2-year-old Speech	\$2,494
Total FUSE Awards:						\$168,591
Total FUSE Mentor Awards:						\$33,500

SAVE THE DATE FOR THE 7TH ANNUAL STUDENT RESEARCH AND CREATIVE ACTIVITY FAIR



FRIDAY, MARCH 6, 2015

9:00 AM TO 4:00 PM

DR. C.C. AND MABEL L. CRISS LIBRARY AT UNIVERSITY OF NEBRASKA AT OMAHA

FUND FOR UNDERGRADUATE SCHOLARLY EXPERIENCES (FUSE) MENTORS

FUSE grants support faculty-mentored undergraduate student research and creative activity. A special thank you to the following faculty mentors.

Jose Baca	Adrian Duran	Jodi Kreiling	Jonathan Santo
Kenton Bates	Griff Elder	Guoqing Lu	Lisa Scherer
Jill Blakenship	Ece Erdogan	Harmon Maher	Mark Schoenbeck
Thomas Bragg	Roger Foltz	William Mahoney	Suzanne Sollars
Parvathi Chundi	Barry Ford	Michael Matthews	Rosemary Strasser
Catherine Co	Jeffrey French	Patrick McNamara	William Tapprich
Jason Coleman	Ann Fruhling	Amy Morris	Robert Todd
John Conrad	Alan Gift	Sara Myers	Lillian Wolfenbarger
Christine Cutucache	James Hagen	John Noble	Sharon Wood
Paul Davis	Jennifer Harbour	Tatyana Novikov	
Julie Delkamiller	Tom Helikar	Claudia Rauter	
Shari DeVeney	Curtis Hutt	Jeanne Reames	
Kenneth Dick	P. Roxanne Kellar	Roni Reiter-Palmon	
Brian Dorn	Alan Kolok	Donald Rowen	





Kasey (Sasha Staley) travels to reach her family in a world with no air

UNO Students Premiere First Feature Film

If you were a SCUBA diver who surfaced to a world without breathable air, how far would you go to get back to your family before your oxygen tank ran out?

In their first feature-length film, "AIR," former University of Nebraska at Omaha student Nick Royer and current UNO student Emily Royer tell the story of Kasey (Sasha Staley) and her journey to return to her family and son after an unexplained event eliminates the world's breathable air.

The film premiered at Aksarben Cinema in Omaha in June 2014.

"AIR" also stars UNO Department of Theatre alumnus Bill Grennan as Kasey's husband, Marcus, and UNO Theatre professor D. Scott Glasser as a fellow survivor named Lawrence. Additionally, many of the film's 40-plus crew members are UNO students or former students.

Nick and Emily Royer are the founders and owners of Royer Media Group, which was founded in 2007. They acquired the rights to produce "AIR" from Canadian screenwriter Steve Fauquier, and were able to secure a large portion of their production funding through UNO's Fund for Undergraduate Scholarly Experiences (FUSE).

"We began planning the film in fall 2012, and things really got going once we received our FUSE grants," Nick explains. "We pulled together over forty volunteers and shot over 17 days the following summer."

They received particular support from Glasser, who served as a production advisor on the film, as well as playing the role of Lawrence. State Senator Colby Coash, from Lincoln, also helped find filming sites for the Royers and makes a cameo appearance in the film.

"We shot all over Eastern Nebraska and a bit in Council Bluffs," Nick says. "This film really highlights the incredible talent in the Midwest, as well as diverse locations you wouldn't expect to find in Nebraska."

The film and information about it are now available at airthefilm.com.

For questions, please contact Nick Royer at nick@royermedia.com.

Contact: University Communications **Phone:** 402.554.2129 **Email:** unonews@unomaha.edu

GRADUATE RESEARCH AND CREATIVE ACTIVITY (GRACA)

GRACA grants support faculty-mentored graduate student research and creative activity. Grants of up to \$5,000 per student are available to UNO graduate students who will be enrolled through fall semester 2015.

Last	First	Faculty Mentor	College	Dept.	Project Title	Award
Anderson	Ryan	Decker	CBA	ECON	Incentivizing Energy Efficiency in Rental Properties	\$5,000
Applequist	Bryon	Myers	COE	HPER	A comparison of baseline lower extremity muscle function differences in patients with PAD and healthy controls	\$5,000
Aust	Shelly	Kellar	AS	BIOL	Phylogenetic Diversity assessment: A comparison between two grassland prairies using asterids and next-generation sequencing	\$5,000
Bailey	Danielle	Sample	CPACS	CJUS	Diffusion of shame: Experiences of sex offender family support networks	\$5,000
Banwait	Jasjit	Bastola	IST	SI2	A Computational Framework to Identify Therapeutic MicroRNAs - A contemporary approach in treating pancreatic cancer	\$5,000
Bhati	Abhishek	Eikenberry	CPACS	PA	Feeding the Poor: The Portrayal of Destitute Children in NGO Fundraising Campaigns in India	\$4,711
Cavanaugh	Jon	French	AS	PSYC	Effects of oxytocin on the bio-behavioral stress response in marmosets	\$5,000
Chen	Can	Bartle	CPACS	PA	Disentangling the Myth of the Fragile Foundation: The Dynamic Impacts of Public Infrastructure Financing and Fiscal Institutions on State Infrastructure Quality	\$4,850
Davis	Jacquelyn	Sollars	AS	PSYC	Characterization of Innate Immune Response in the Neonatal Rat Tongue Following Peripheral Nerve Injury	\$5,000
De Leoz	Gerard	Petter	IST	ISQA	High Performance IT Project Teams: A Comparative Study for Traditional and Agile Methodologies	\$5,000
Flairty	Taylor	Ryan	AS	PSYC	STEM Graduates' Perceptions of their Work Experiences	\$5,000
Frecks	Lora	Chen	CPACS	PA	Cracking the Code of Civic Engagement	\$4,859
Gai	Mengmeng	Azadmanesh	IST	CS	Automated Sensor Deployment Scheduling for Realistic Indoor Three-dimensional Wireless Sensor Networks	\$5,000
Go	Susannah	Chundi	IST	CS	Latent Dirichlet Allocation for Correlating Retinal Images of Age-Related Macular Degeneration	\$5,000
Hannaford	Heather	Girten	AS	ENGL	The Evolution of Curiosity from the Eighteenth to the Nineteenth Century	\$5,000
Harms	Mackenzie	Reiter-Palmon	AS	PSYC	"Information Seeking": How Information Search Strategies Influence Problem Solving	\$4,500
Harris	Daniel	Reiter-Palmon	AS	PSYC	Solving Puzzles and Problems	\$5,000
Heesch	Matt	Slivka	COE	HPER	Human skeletal muscle mRNA response to exercise in a hot environment	\$5,000
Hough	Michael	Myers	COE	HPER	Improving Elderly Gait Using a Structured Auditory Stimulus	\$5,000
King	Jocelyn	Cortese	AS	PSYC	Adult Novel Word Lexicalization	\$4,996
Kocsis	David	de Vreede	IST	SI2	A Theory of Ethical Concerns and Considerations in Crowdsourcing	\$5,000
Kretz	Abbie	Gouveia	AS	SOC	Wage Theft in Nebraska	\$5,000

GRADUATE RESEARCH AND CREATIVE ACTIVITY (GRACA)

Last	First	Faculty Mentor	College	Dept.	Project Title	Award
Krysl	Ryan	Kolok	AS	BIOL	Developing the northern leopard frog, <i>Rana pipiens</i> , as an environmental sentinel species to detect endocrine disrupting activity in Midwestern agricultural watersheds	\$5,000
La Salle	David	Slivka	COE	HPER	Physiological and mechanical differences of an electrically assisted bicycle between sedentary and active individuals	\$5,000
Lee	Christina	Hayes	AS	GEOG/ GEOL	Analysis of spatial resolution effects for studying invasive saltcedar across multi-resolution satellite imagery	\$5,000
Marquardt	Meg	Kennedy	AS	ENGL	Weird Science: Investigating the Shift in Science Engagement in the Early 1900s	\$5,000
Martin	Louis	Sollars	AS	PSYC	Changes in Taste Nerve Functioning Following Neonatal Chorda Tympani Transection (Effects of Sodium Deprivation on Glossopharyngeal Nerve Response Following Nerve Injury)	\$5,000
McGrath	Scott	Fruhling	IST	SI2	Workflow analysis of the Juvenile Diversion Case Management System (JDCMS) in Nebraska	\$5,000
Mustoe	Aaryn	French	AS	PSYC	Exploring the Presence of the Catechol-o-methyltransferase (COMT) Polymorphism in Marmosets and Its Potential Influence on Prosocial Behavior	\$5,000
Nye	Elizabeth	Melby-Phaneuf	CCFAM	THTR	UNO Theatre Festival Production of Heather Raffo's "9 Parts of Desire"	\$5,000
Overgaard	Amanda	Barone	AS	SOC	Breastfeeding and Social Networks: The Effect of Networks on Breastfeeding Rates	\$5,000
Park	Ji-Hyung	Ebdon	CPACS	PA	Form of Government and Fiscal Health: The Role of Citizen Participation Pressure	\$4,948
Phillips Buttner	Alicia	Strasser	AS	PSYC	Effects of Social Deprivation on Neuroendocrine and Social-Cognitive Systems in Dogs	\$5,000
Pickhinke	Josh	Mukherjee	COE	HPER	COP Variability as a Biomarker for Balance During Gait	\$5,000
Pippin	Michael	Krane	CPACS	PA	A Study of the Performance Between Chief Information Officers Working In Traditional Public Sector and Traditional Private Sector Organizations	\$4,720
Pisciotta	Eric	Myers	COE	HPER	Effects of Aging on the Magnitude and Regularity of Plantar Pressure Distributions	\$5,000
Rand	Troy	Mukherjee	COE	HPER	The effect of split belt walking and virtual reality on the gait symmetry in stroke survivors	\$4,995
Riquier	Andrew	Sollars	AS	PSYC	Microglia Levels in Response to Chorda Tympani Nerve Transection in Developing Rats	\$5,000
Sands	Stephanie	Reiter-Palmon	AS	PSYC	Using Crowdlarning for Leadership Development in Rural Communities	\$3,000
Shute	R.J.	Slivka	COE	HPER	Human Gene Response to Exercise in a Cold Environment	\$5,000
Sivanadham	Rajalakshmi	Chase	AS	BIOL	Genetic Analysis of Parkinsonism/Dementia and Multiple Sclerosis	\$5,000
Slakoff	Danielle	Brennan	CPACS	CJUS	The Picture Tells the Story: Photographic Depictions of Female Offenders in Front-Page Newspaper Stories	\$5,000

GRADUATE RESEARCH AND CREATIVE ACTIVITY (GRACA)

Last	First	Faculty Mentor	College	Dept.	Project Title	Award
Sporer	Karyn	Simi	CPACS	CJUS	Understanding the coping strategies among the parents and siblings of aggressive and mentally ill family members	\$5,000
Stanger	Abigail	Davis	AS	BIOL	Investigation of Molecular Target of Early Lead Anti- \hat{A} -Toxoplasma Compound, KG- \hat{A} -8	\$5,000
Taylor	Jack	French	AS	PSYC	Sex Steroids, Neuropeptides, and Parental Behavior in Mongolian Gerbils	\$5,000
Thompson	Seth	Hawkins	AS	SOC	Religion, Environment, and Economics: a 40 Study	\$5,000
Ufimtsev	Vladimir	Bhowmick	IST	CS	Identifying Important Vertices in Large Real World Networks	\$5,000
VanWyngaarden	Kristin	DeVeney	COE	SPED	Phonological profiles of 2-year-olds with expressive-only and expressive and receptive language delay	\$4,450
Wilson	Holly	Price	AS	ENGL	In Search of Nebraska's Orphan Trains	\$3,265
Woosley	Bradley	Dasgupta	IST	CS	Efficient Simultaneous Motion and Task Planning Using Task Reachability Graphs	\$5,000
Xiong	Jie	Qureshi	IST	ISQA	Information and Communications Technology Development for Native American Small Businesses with a Community Emphasis	\$5,000
Total GRACA Awards:						\$249,294





GRADUATE RESEARCH AND CREATIVE ACTIVITY (GRACA) MENTORS

GRACA grants support faculty-mentored graduate student research and creative activity. A special thank you to the following faculty mentors.

Azad Azadmanesh	Gert-Jan de Vreede	Tammie Kennedy	Pete Simi
Timi Barone	Christopher Decker	Alan Kolok	Dustin Slivka
John Bartle	Shari DeVeney	Dale Krane	Suzanne Sollars
Dhundy Bastola	Carol Ebdon	Cindy Melby-Phaneuf	Rosemary Strasser
Sanjukta Bhowmick	Angela Eikenberry	Mukul Mukherjee	
Pauline Brennan	Jeffrey French	Sara Myers	
Bruce Chase	Ann Fruhling	Stacie Petter	
Yu-Che Chen	Kristin Girten	John Price	
Parvathi Chundi	Lourdes Gouveia	Sajda Qureshi	
Michael Cortese	Dan Hawkins	Roni Reiter-Palmon	
Raj Dasgupta	James Hayes	Carey Ryan	
Paul Davis	P. Roxanne Kellar	Lisa Sample	

Graduate Research and Creative Activity (GRACA) Spotlight: Catherine Miller

Catherine Miller, a proud native of Omaha, Nebraska, once anticipated a career in Theater and Social Justice. Yet after running a successful student theater for two seasons, she recognized that she needed to polish her administration skills if she were to continue to successfully serve her community. After discovering that UNO had a top rated Master's of Public Administration program, she enrolled in the fall of 2011 and promptly set to work.



Pictured are Dr. Carol Ebdon, Dr. Bryce Hoflund, Catherine Miller, and Dr. Lisa Sample - Miller's thesis committee

The MPA program at UNO is built for practitioners, and students typically complete a semester long project in place of a thesis. Miller knew that she needed to gain some more research experience before she could undertake a thesis. She had also heard that Nebraska State Senator Amanda McGill had been working on human trafficking legislation, a topic which had interested her since high school.

Miller applied for an internship with the Senator, and was immediately brought on board to write papers on a series of topics, including rural tele-health and the gender pay gap in Nebraska. She also applied for a GRACA grant, asking for funding to work in Lincoln and extensively study human trafficking in the State of Nebraska. The result of this work was a paper titled *Discussion on Sex Trafficking in the State of Nebraska*, which discussed ways of determining the prevalence of trafficking in other states, as well as discussing what was known of trafficking in Nebraska.

Miller wanted to take her work further. She approached Dr. Carol Ebdon, the head of the MPA department, and asked again to complete a thesis. After a long discussion, Dr. Ebdon agreed. Working with Project Harmony, an Omaha-based child advocacy center, she was able to access databases which allowed her to track young victims of sexual abuse through the system, documenting their experiences with Project Harmony, foster care, and the criminal justice system. "The intent of this was twofold. First, I wanted to see if there were identifiable victims of sex trafficking in the state of Nebraska. Second, I wished to examine certain cases and determine whether I could identify risk factors, or commonalities all the victims shared."

Miller credits Ebdon and Deb Anderson at Project Harmony for allowing her to think creatively, form connections, and pursue a project meaningful to her. "Dr. Ebdon was extremely receptive to my ideas and interests, and Dr. Deb Anderson from Project Harmony was gracious enough to allow access to her databases and provide research expertise." These individuals, as well as the data collected while working under the GRACA grant, were crucial to the completion of the project.

This winter Miller was presented with the Presidential Management Fellowship, a two-year paid government internship, and recently accepted a position in the US Department of Housing and Urban Development. After successfully defending her thesis this summer, she is concentrating on moving to Portland, Oregon and writing two articles for publication. She eventually hopes to apply for a PhD program in Social Policy and continue her work on human trafficking, preferably abroad.

UNIVERSITY COMMITTEE ON RESEARCH AND CREATIVE ACTIVITY (UCRCA) Student Awards

The purpose of the UCRCA is to expand the capacity for research and creative activity at UNO. UCRCA supports all areas, types and disciplines of research and creative activity by pre- and post- tenured faculty and graduate and undergraduate students.

Last	First	Faculty Mentor	College	Dept.	Project Title	Award
Castro	Ana	Chase	AS	BIOL	Localization and Functional Analysis of the mind-meld Gene in Drosophila	\$500
Conroy	Brittany	Cutucache	AS	BIOL	Characterization of the role of CAV1 in Cellular Proliferation Pathways in a CD4+ T Helper Cell	\$500
DeLeoz	Gerard	Petter	IST	ISQA	Examining the Moderating Effects of Knowledge Management Enablers on Knowledge Sharing and Knowledge Application Processes to Team Performance In Information Systems Projects	\$500
Herek	Tyler	Cutucache	AS	BIOL	Effectiveness of nascent methods in science pedagogy in the undergraduate classroom	\$500
Jack (Madsen)	Samantha	Chase	AS	BIOL	Genetic Analysis of Parkinsonism/Dementia and Multiple Sclerosis	\$500
Pickhinke	Josh	Mukherjee	COE	HPER	Rotating Optical Flow Affects Postural Balance	\$500
Pisciotta	Eric	Yentes	COE	HPER	Effects of Aging on the Magnitude and Regularity of Plantar Pressure Distributions	\$500
Rand	Troy	Mukherjee	COE	HPER	Affect of sensory input on the temporal structure of center of pressure during standing	\$500
Riquier	Andrew	Sollars	AS	PSYC	Astrocyte, Microglia, and Brain-Derived Neurotrophic Factor Levels in Response to Neural Insult in Developing Rats	\$500
Shively	Rebecca	Ryan	AS	PSYC	Implicit Belief Systems and Career Aspirations	\$462
Tsai	Kami	Harrison	AS	PSYC	The Roles of Organizational Justice and Cynicism in Employee Affective Commitment to Change	\$500
Xiong	Jie	Qureshi	IST	ISQA	Analysis of IT Adoption in Small Business in the United States and China: Adoption Decision, Human Capital, and Sustainable Development	\$500
Total Student UCRCA Awards:						\$5,962



OFFICE OF RESEARCH & CREATIVE ACTIVITY

INTERNAL FUNDING OPPORTUNITIES AND SUMMARY

Contact Us:
 Phone: 402.554.2286
 Email: unoorca@unomaha.edu

Fund for Investing in the Research Enterprise (FIRE) - Deadline is 12/16/14

FIRE grants will support the collection of preliminary data/proof of concept for faculty projects that demonstrate a high potential for attracting substantial extramural funding (>\$250,000 in direct costs over the term of the grant). Awards of \$20,000 are available to single investigator FIRE proposals, and multi-investigator, collaborative proposals may request up to \$35,000.

Faculty Research International (FRI) - Deadline is 1/30/15

The Office of Academic and Student Affairs (OASA) sponsors the FRI program. FRI grants will support the establishment of new research and creative activity partnerships among UNO faculty and international collaborators. Awards of up to \$5,000 are available to individual UNO faculty members to support travel-related expenses for UNO faculty, affiliated UNO graduate students, and/or their international partners.

Fund for Undergraduate Scholarly Experiences (FUSE) - Deadlines are 10/14/14 and 2/17/15

FUSE grants will support faculty-mentored, undergraduate student research and creative activity. Grants of up to \$2,500 per student are available to UNO undergraduate students who will be enrolled through fall semester 2015.

Graduate Research and Creative Activity (GRACA) - Deadline is 1/20/15

GRACA grants will support faculty-mentored, graduate student research and creative activity. Grants of up to \$5,000 per student are available to UNO graduate students who will be enrolled through fall semester 2015.

University Committee on Research and Creative Activity (UCRCA)

The purpose of the UCRCA is to expand the capacity for research and creative activity at UNO. UCRCA supports all areas, types and disciplines of research and creative activity by pre- and post- tenured faculty and graduate and undergraduate students.

Award for Distinguished Research or Creative Activity (ADROCA) - Deadline is 10/30/14

The award strives to recognize and honor preeminent achievement in research or creative activity by faculty members of UNO.

2013 - 2014 Internal Funding Program Totals

PROGRAM	TOTAL	Number of Awards
FIRE Faculty	\$194,654	6
FRI Faculty	\$59,974	12
UCRCA Faculty	\$83,925	18
FUSE Student	\$168,591	71
FUSE Faculty Mentor	\$33,500	51
GRACA Student	\$249,294	51
UCRCA Student	\$5,962	12
Grand Total	\$795,900	221



OFFICE OF RESEARCH AND CREATIVE ACTIVITY
6001 Dodge Street EAB 203 | Omaha, NE 68182
www.unomaha.edu/orca

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