THE UNIVERSITY OF MEMPHIS
Research & Innovation

INNOVATION NEWSLETTER

RESEARCH.
TECHNOLOGY.
ACHIEVEMENTS.

August 2021 • COVID-19 Updates

Zhang Receives Grant from National Science Foundation

Understanding the rules of honest signaling »

Zoblotsky to PI National Science Foundation Grant

The vision for engineering leadership that addresses national, global and societal needs »

Research Awards
July 2021

Dr. Brian Waldron, associate professor of the Department of Civil Engineering and director of the Center for Applied Earth Science and Engineering, was awarded $1,342,887 from MLGW, $45,000 from the City of Germantown and $165,000 from the West Tennessee River Basin Authority for his projects “MLGW aquitard year 4”, “Germantown gw support” and “Lone Oaks.”

Dr. Todd Zoblotsky, research professor of the Center for Research and Educational Policy, was awarded $799,978 from the University-Industry Demonstration Partnership with the National Science

THE BENJAMIN L.
HOOKS INSTITUTE
FOR SOCIAL CHANGE

UofM’s Hooks Institute Announces Inaugural Academic Research Fellows

Goal to increase research capabilities in civil rights »

Zhao Receives National Science Foundation Award

To fund research on alternative, renewable fuels »

Banai's Research Featured in *Sciendo*

Urban sprawl and blight »

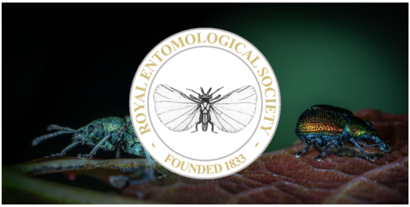
Foundation for his project “External Evaluator - ERVA: The Vision for Engineering Leadership - a Multi-sector Alliance (VELMA).”

Dr. Anita Boykins, associate professor of the Loewenberg College of Nursing, was awarded $676,890 from Health Resources and Services Administration for her project “Health, Education, and Access for Rural Tennesseans (HEART).”

Dr. Susan Neely-Barnes, professor, director, and chair of the Department of Social Work, was awarded $615,768 from Health Resources and Services Administration for her project “Memphis Social Work Scholarships for Disadvantaged Students (MSW-SDS).”

Dr. Katy Ramsey, assistant professor of the Cecil C. Humphreys School of Law, was awarded $445,400 from The Urban Child Institute for her project “MLP/Memphis CHiLD.”

Dr. Philip Pavlik, associate professor of the Department of Psychology and affiliate of the Institute for Intelligent Systems, was awarded $431,594 from the U.S. Department of Education for his project “Using Adaptive Practice to Improve Recall and Understanding in



McKenna Named Royal Entomological Society Fellow

In recognition of his achievements in the field of entomology »

JOURNAL OF AEROSOL SCIENCE
ELSEVIER

Gopalakrishnan Named to *Journal of Aerosol Science* Editorial Board

One of 12 selected worldwide »

Hunter UofM's PI for State of Tennessee

Postsecondary Anatomy and Physiology.”

Dr. Laura Casey, professor of the Department of Instruction and Curriculum Leadership, was awarded $382,980 from the Tennessee Department of Mental Health and Substance Abuse Services for her project “Regional Intervention Project – Expansion.”

Dr. Yufeng Zhang, assistant professor of the College of Health Sciences, was awarded $348,322 from the National Science Foundation for his project “Collaborative Research: RoL: Understanding the rules of honest signaling” and was awarded $25,773 from Calerie LLC for his project “In Vivo Examination of Nicotinamide Mononucleotide and Superoxide Dismutase Administration in Mice.”

Dr. Eraina Schauss, assistant professor of Counseling, Educational Psychology and Research, was awarded $249,013 from The Urban Child Institute for her project “Fostering Resilience and Well-being in the Pediatric Trauma Population: Counseling Interventions for an At-Risk Population.”

Dr. Mitchell Withers,

Department of Education Grant

Funds to support families to improve lifelong outcomes »

Honest Organizations

Tollefsen receives grant to research what makes an honest, or dishonest, organization – the organization or the people within it? »

Communities of Research Scholars

2022 Call for Proposals »

associate research professor of the Center for Earthquake Research and Information, was awarded $201,159 from the United States Geological Survey for his project "Operation of the Mid-America Integrated Seismic Network 2020-2024-CERI."

Dr. Susan Elswick, associate professor of the Department of Social Work, was awarded $195,000 from The Urban Child Institute for her project "School Mental Health Access to Resources through Teletherapy (SMART) Research, Training, and Treatment Center."

Dr. Eddie Jacobs, professor of the Department of Electrical Engineering, was awarded $183,710 from the U.S. Department of Defense for his project "Compact Multiple UAV/Multiple Sensor System."

Derek Myers, chief of Police, was awarded $158,034 from the State of Tennessee, Office of Criminal Justice Programs for his project "VOCA Grant."

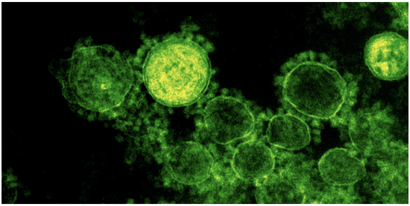
Dr. Genae Strong, associate professor of the Loewenberg College of Nursing, was awarded $148,300 from the Tennessee Department of Health for her project "Loewenberg College of Nursing - Lactation Support Program."

Building Research Capacity

Workshops designed to drive growth in grant submissions »

Graduate Student Research Spotlight: August 2021

Human Performance and Sports Science »



Research Study Participation Opportunities

Contact area of interest »

- College of Health Sciences »
- Department of Psychology »
- Speech Perception Assessment Laboratory »
- Hearing Aid Research Lab »
- Center for Information Assurance »

Dr. Loretta Rudd, clinical associate professor of Child Development, was awarded $136,000 from The Urban Child Institute for her project “Coordinated Effort to Enhance Development (CEED).”

Dr. Kathryn Howell, associate professor of the Department of Psychology and director of Child and Family Studies Research, was awarded $112,500 from The Urban Child Institute for her project “Promoting Health and Well-being in Children and Families: Expansion of a Prenatal Intervention Program.”

Dr. Carolyn Kaldon, research associate professor of the Center for Research in Educational Policy, was awarded $100,000 from The Urban Child Institute for her project “SCS + Community Literacy Resources Study: 2021-2022.”

Dr. Alfred Hall, assistant dean of the College of Education, was awarded $84,800 from the Tennessee Higher Education Commission for his project “In the Minor: Forging a New Career Path to Address

FedEx
Institute of Technology

FedEx Institute of Technology and School of Public Health Will Hold Summer Institute

Workshops designed to grow data analysis and infectious disease epidemiology »

For more information, contact Rami Lotay at rslotay@memphis.edu or Dr. Marian Levy at mlevy@memphis.edu.

Compliance Corner

August 2021

Research Compliance Shortcuts: Ten Quick and Easy Concepts for Making Things Go Right

Human Subjects Research (IRB) and Animal Research (IACUC)

- KNOW the methods and procedures in your approved protocol.
- Always ADHERE to your protocol and submit MODIFICATIONS for approval when you need to change anything about your protocol.

Financial Conflict of Interest (FCOI)

- Only disclose that which is RELATED to the work you do for the University.
- Submit a disclosure ANNUALLY, even if you have nothing to disclose.
- Complete the Conflict of Interest course at citiprogram.org every four years.

Export Controls

Teacher Diversity in Tennessee (MiM).”

Dr. Deborah Tollefsen, professor of Philosophy and associate dean of the College of Arts and Sciences, was awarded $79,564 from the John Templeton Foundation for her project “Honest Organizations.”

Dr. Gavin Bidelman, professor of the Institute for Intelligent Systems, was awarded $46,036 from the National Institutes of Health for his project “Neural bases of successful auditory learning.”

Dr. Wendy Griswold, assistant professor of the Department of Leadership and director of the Center for the Study of Higher Education, was awarded $41,475 from the U.S. Environmental Protection Agency for her project “Technical Assistant to Brownfields - Yr. 5.”

Samuel Acuff, student in the Department of Psychology (mentor, Dr. James Murphy), was awarded $36,775 from the National Institute of Health for his project “Integration of Electrophysiological and Behavioral Economic Models of Reward

- Do not take anything ABROAD that you do not want to share with the rest of the world. (i.e., on laptops, cell phones with email that could include attached files of research and personal information.
- If you are TRAVELING to a country of concern, or do not know if that country is of concern, have a conversation with the export controls officer.
- If your research is not “fundamental research” in that it is not designed to become public knowledge and published information, such as research bound by a NON-DISCLOSURE AGREEMENT, talk to your export controls officer about how to protect that work.

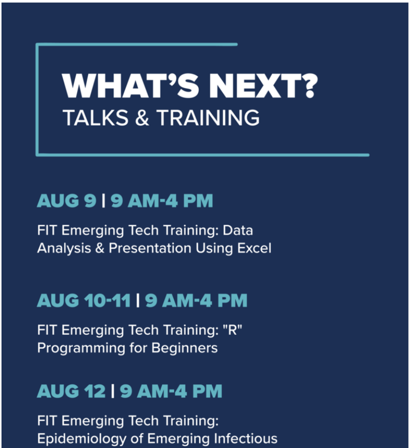
Research Misconduct
Responsible Conduct of Research (RCR)

- Always do the right thing, and when you don't know what that is, CONSULT your mentor, your colleagues, your supervisor, Human Resources, your professional organizations and/or Research Compliance.

Data management, acquisition, sharing and ownership, Health Insurance Portability and Accountability Act (HIPAA)

- KNOW your data. Know what sensitivities are associated with the data you are using. Always be prepared to know which IDENTIFIERS are associated with your datasets. Are they under HIPAA protections, are they truly DE-IDENTIFIED or are they indirectly identifiable?

Please contact researchcompliance@memphis.edu with any questions about meeting these requirements.



WHAT’S NEXT?
TALKS & TRAINING

AUG 9 | 9 AM-4 PM

FIT Emerging Tech Training: Data Analysis & Presentation Using Excel

AUG 10-11 | 9 AM-4 PM

FIT Emerging Tech Training: "R" Programming for Beginners

AUG 12 | 9 AM-4 PM

FIT Emerging Tech Training: Epidemiology of Emerging Infectious

Among Heavy Drinking Emerging Adults.”

Dr. Shahram Pezeshk, chair and professor of Civil Engineering, was awarded $35,118 from the Tennessee Department of Transportation for his project “TDOT Needs and UT Competencies.”

Dr. Joel Bumgardner, professor of Biomedical Engineering, was awarded $25,624 from the Triad Life Sciences Inc. for his project “Biomaterial Characterization.”

Dr. Stephanie Ivey, associate dean and professor of the Department Civil Engineering, was awarded $15,000 from Battelle Education with the Tennessee Department of Education for her project “West Tennessee STEM Hub.”

Dr. Alexander Headley, assistant professor of the Department of Mechanical Engineering, was awarded $14,653 from the National Guard Products Inc. and $25,000 from the U.S. Department of Energy for his projects “NGP Leak Detection Preliminary Scoping” and “Techno-economic Analysis of Grid Energy Storage Systems in Tribal Communities.”

Napoleon Overton, instructor of the Department of Finance,

Diseases

AUG 16-18 | 8:30 AM-2:30 PM

FIT Emerging Tech Training: Impactful Training & Speaking

AUG 24-26 | 8 AM-2:30 PM

FIT Emerging Tech Training: Mastering DAX in PowerBI

AUG 26 | 2-3 PM

FIT Blockchain901 Series: Decentralized Finance (DeFi) - A Quantum Leap Into A Self-Sovereign Financial System

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UMRF Research Park

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was awarded $10,884 from the Tennessee Valley Authority for his project “TVA Investment Challenge Award.”

Dr. Robert Smalley, research professor of the Center for Earthquake Research and Information, was awarded $9,550 from the United States Geological Survey for his project “GPS Array for Mid-America - monitoring deformation in the New Madrid seismic zone.”

Dr. Jessica Jennings, assistant professor of Biomedical Engineering, was awarded $8,042 from Chirozan for her project “Silanated chitosan coatings on additively manufactured Titanium.”

Dr. Thomas Watson, assistant professor of the Department of Computer Science, was awarded $7,617 from the National Science Foundation for his project “CAREER: Structural Communication Complexity.”

Dr. Elizabeth Gillespie, assistant professor in the Department of Public and Nonprofit Administration, was awarded $4,567 from the Assisi Foundation of Memphis for her project “Empowering "Chief Everything Officers" to Fundraise Effectively.”

Dr. Chunrong Jia, assistant professor of the

Division of Epidemiology, Biostatistics, and Environmental Health, was awarded $3,000 from Harvard University for his project “Controlled Human Infection Model: Detection of Vaccine Effect in NHPs.”

Dr. Douglas Powell, assistant professor of the College of Health Sciences, was awarded $3,000 from Tekscan Inc. for his project “Detection of Key Gait Events in Individuals with Parkinson's Disease using a Plantar Pressure Mat.”

Dr. Teressa Del Rosso, assistant professor of the Department of Journalism, was awarded $2,000 from Pennsylvania State University for her project “In Solidarity: Campus community organizing.”

Kelly Miller, student in the Department of Biology (mentor, Dr. Emerson Bowers), was awarded $1,342 from the American Ornithological Society for her project “The effect of coloration on mate choice and reproductive allocation in a wild bird population.”

Ashley Coleman, student in the Department of Biology (mentor, Dr. Emerson Bowers), was awarded $1,057 from the Tennessee

Ornithological Society for her project “Sex Allocation and Heritability of Maternal Care in Carolina Wrens (Thyrothorus ludoviscianus).”

Melissa Marshall, instructor in Instructional Design and Technology and executive director of Keep Tennessee Beautiful, was awarded $4,919,560 from the Tennessee Department of Transportation for her project “Keep Tennessee Beautiful Program.”

*** Data reported the 18th of each month. Awards finalized after the 18th will be reported the following month.**

Research + Innovation News

Quick Guide to Research & Sponsored Programs

Research Compliance

FedEx Institute of Technology News

Research Clusters

Emerging Tech Training

DevMemphis
Aug. 3 | 6-7:30 PM | FedEx Institute of Technology 225

Machine Learning/Data Sciences/R
Aug. 3 | 7-8 PM | Virtual

FedEx Institute of Technology Emerging Tech Training: Data Analysis & Presentation Using Excel
Aug. 9 | 9 AM-4 PM | Virtual

FedEx Institute of Technology Emerging Tech Training: "R" Programming for Beginners
Aug. 10-11 | 9 AM-4 PM | Virtual

Memphis Web Workers
Aug. 10 | 6-8 PM | Virtual

FedEx Institute of Technology Emerging Tech Training: Epidemiology of Emerging Infectious Diseases
Aug. 12 | 9 AM-4 PM | Virtual

MemPASS / Power BI
Aug. 12 | 5:30-7:30 PM | FIT 225

FedEx Institute of Technology Emerging Tech Training: Impactful Training & Speaking
Aug. 16-18 | 8:30 AM-2:30 PM | Virtual

Memphis Python
Aug. 16 | 6:30-8:30 PM | Virtual

Memphis Game Developers Workshop
Aug. 21 | 6-8 PM | Virtual

FedEx Institute of Technology Emerging Tech Training: Mastering DAX in PowerBI
Aug. 24-26 | 8 AM-2:30 PM | Virtual

Memphis PHP
Aug. 24 | 6:30-8 PM | FIT 225

Memphis .NET
Aug. 25 | 6-8 PM | Virtual

FedEx Institute of Technology Blockchain901 Series: Decentralized Finance (DeFi) - A Quantum Leap Into a Self-Sovereign Financial System
Aug. 26 | 2-3 PM | Virtual

Business Agility Memphis
Aug. 26 | 6-7:30 PM | Virtual

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