



A Tennessee Flagship Carnegie R1 Research Institution

# RESEARCH + **INNOVATION**

## NEWSLETTER

# RESEARCH REPORT

FY23



UofM Continues to Grow Research Efforts

University research activity secures institutional record \$86M in research awards for FY23.

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## UMRF Awards Faculty with Professorships

University of Memphis Research Foundation awards two faculty with research professor appointments.

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## Call for 2023-24 CoRS Research Proposals

Research & Innovation is extending the next call for Communities of Research Scholars.

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## NIH R15 and Biomedical Research

Developing interventions to mitigate the development of post-traumatic osteoarthritis.

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## Strategic Division Research Planning for FY24

The Division of Research & Innovation work to set goals to grow research efforts for the next year.

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## Yoga Exercise and Cardiovascular Disease

Research on the beneficial clinical and therapeutic role yoga plays in heart disease, stroke and diabetes.

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## Developing Monitoring Tools in Agriculture

New eDNA and eRNA tools aims to benefit honey bee health and reduce the decline in population.

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## New Methodologies for Nursing Education

Exploring strategies for fostering autonomy in nurse practitioner students' clinical education.

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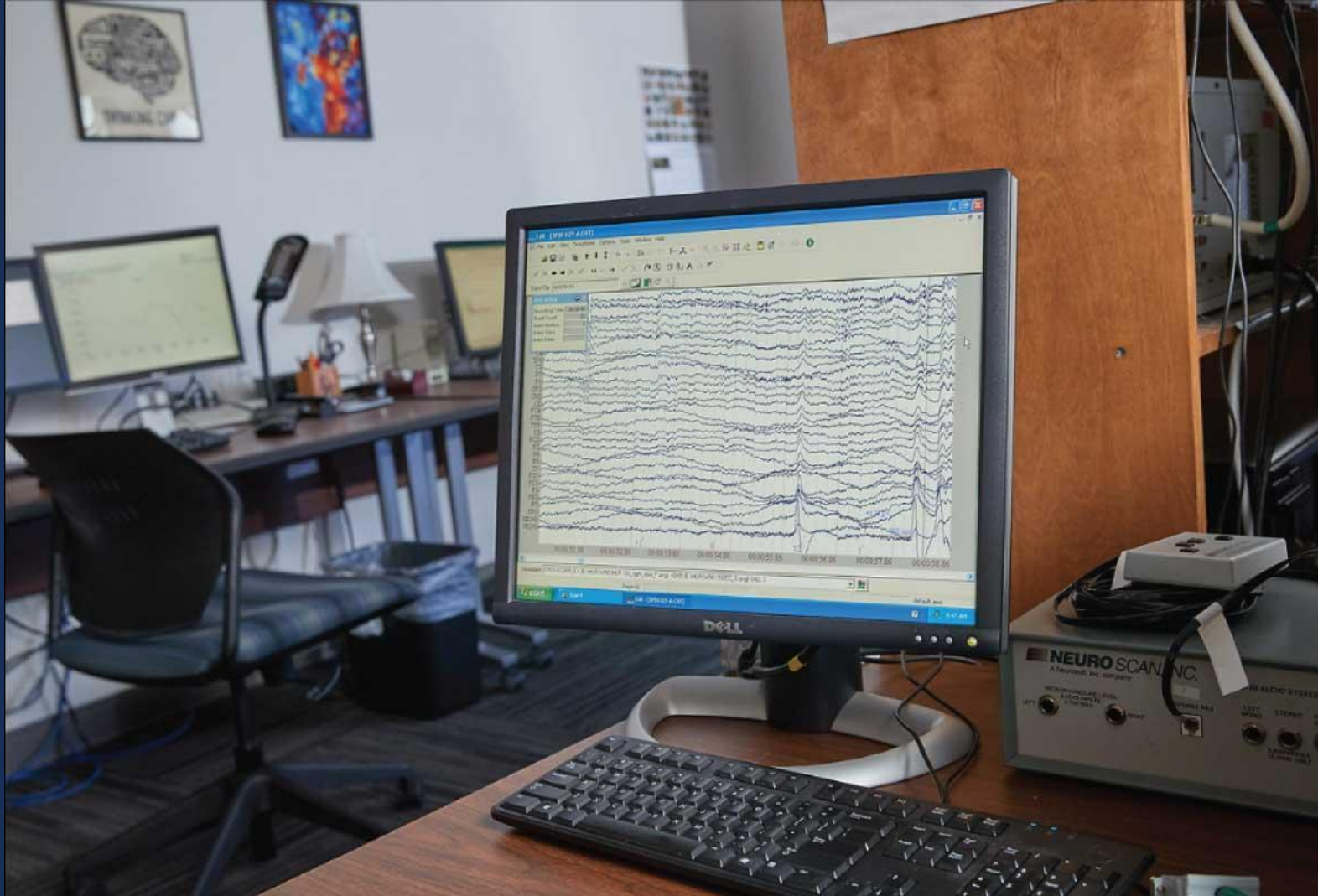




## Embodied Cognition Seminar Series

Addressing internal and external factors that play a role in the development of cognitive capacities.

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## Information Processing Biases in Stuttering Adults

Understanding attention patterns in stuttering can open new directions for research and clinical intervention.

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## NIH and NSF Funding Opportunities

Recently published federal agencies' funding opportunities outlining upcoming grants.

[See Full List](#)



## Calendar of Events September 2023

Research Development, Pre/Post Awards, UMRF Research Park & FedEx Institute of Technology.

[See Full List](#)

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## Research Awards August 2023

**Dr. Cody Behles** awarded \$580,000 from the Delta Regional Authority.

**Dr. Deranda Lester** awarded \$432,051 from the National Institutes of Health (NIH).

**Dr. Daniel Foti** awarded \$350,000 from the Office of Naval Research.

**Dr. Qianyi Cheng** awarded \$327,397 from the National Institutes of Health.

**Dr. Kathryn Ramsey** awarded \$300,00 from the University of Memphis Research Foundation and \$350,000 from The Urban Child Institute.

**Dr. Sabyasachee Mishra** awarded \$299,998 from the Tennessee Department of Transportation.



**Dr. Thomas Sutter** awarded \$252,560 from the University of Pennsylvania with the National Institutes of Health.

**Dr. Loretta Rudd** awarded \$250,000 from The Urban Child Institute.

**Dr. Nathan DeYonker** awarded \$186,061 from the National Science Foundation.

**Dr. Mitchell Withers** awarded \$185,831 from the U.S. Geological Survey.

**Dr. Eraina Schauss** awarded \$185,000 from The Urban Child Institute.

**Dr. Amir Hadadzadeh** awarded \$160,000 from Medtronic Incorporated.

**Dr. Daniel Larsen** awarded \$139,569 from the West Tennessee River Basin Authority and \$28,141 from the U.S. Geological Survey.

**Dr. Melanie Burgess** awarded \$113,989 from the U.S. Department of Education.

**Dr. Kristoffer Berlin** awarded \$108,975 from Wayne State University with the National Institutes of Health.

**Dr. Christos Papadopoulos** awarded \$107,208 from the National Science Foundation.

**Derek Myers** awarded \$81,000 from the State of Tennessee Office of Criminal Justice Programs with the U.S. Department of Treasury Office of Financial Research.

**Dr. Thouraya Al-Nasser** awarded \$50,000 from The Urban Child Institute.

**Dr. Bert Burraston** awarded \$43,234 from Methodist Le Bonheur Community Outreach with the U.S. Department of Justice.

**Dr. Richard Sweigard** awarded \$39,600 from Tennessee State University with the National Science Foundation.

**Dr. Jeffrey Marchetta** awarded \$36,610 from Vanderbilt University with the National Aeronautics and Space Administration and \$30,000 from Tennessee Technological University with the U.S. Department of Energy.

**Dr. James Murphy** awarded \$35,742 from Washington State University with the National Institutes of Health.

**Dr. Huigang Liang** awarded \$19,491 from The University of Texas at Austin with the National Institutes of Health.

**Dr. Minhae Cho** awarded \$17,900 from the Seoul National University with the National Research Foundation of Korea.

**Dr. Mohd Ali** awarded \$10,000 from the Electric Power Research Institute.

**Adriana Dunn** awarded \$8,900 from the Tennessee Arts Commission with the National Endowment for the Arts.

**Dr. William Shaltis** awarded \$6,400 from the Tennessee Arts Commission with the National Endowment for the Arts.

**Dr. Emerson Bowers** awarded \$2,250 from the American Ornithological Society.

**Dr. Diana Ruggiero** awarded \$1,000 from Teach Access.

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

[Full project and award details available here.](#)

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## Upcoming Events & Announcements



**FedEx Institute of Technology  
Technology Serving Humanity Speaker Series**

Welcomes

**Dr. Heng Xu**

Professor of Management in the Warrington College of Business  
University of Florida

Xu's recent research focuses on privacy protection, data ethics and fairness in machine learning. She has published over 100 research papers across different fields such as Business, computer science and psychology. Her research has been awarded multiple competitive grants from multiple federal funding agencies, including Defense Advanced Research Project Agency, National Institutes of Health and National Science Foundation.

**Thursday, Sept. 7 | 3 PM (CST)**

**FedEx Institute of Technology | Methodist Presentation Theatre (103)**

[REGISTER](#)





## Women+'s Mentorship Network

*Building a community of mentors.*

Please join us for our first WMN+ monthly meetup where WMN+ members will share their best practices and experiences in writing and submitting CoRS proposals. CoRS grants are funded through the Division of Research & Innovation. [Learn more >>](#)

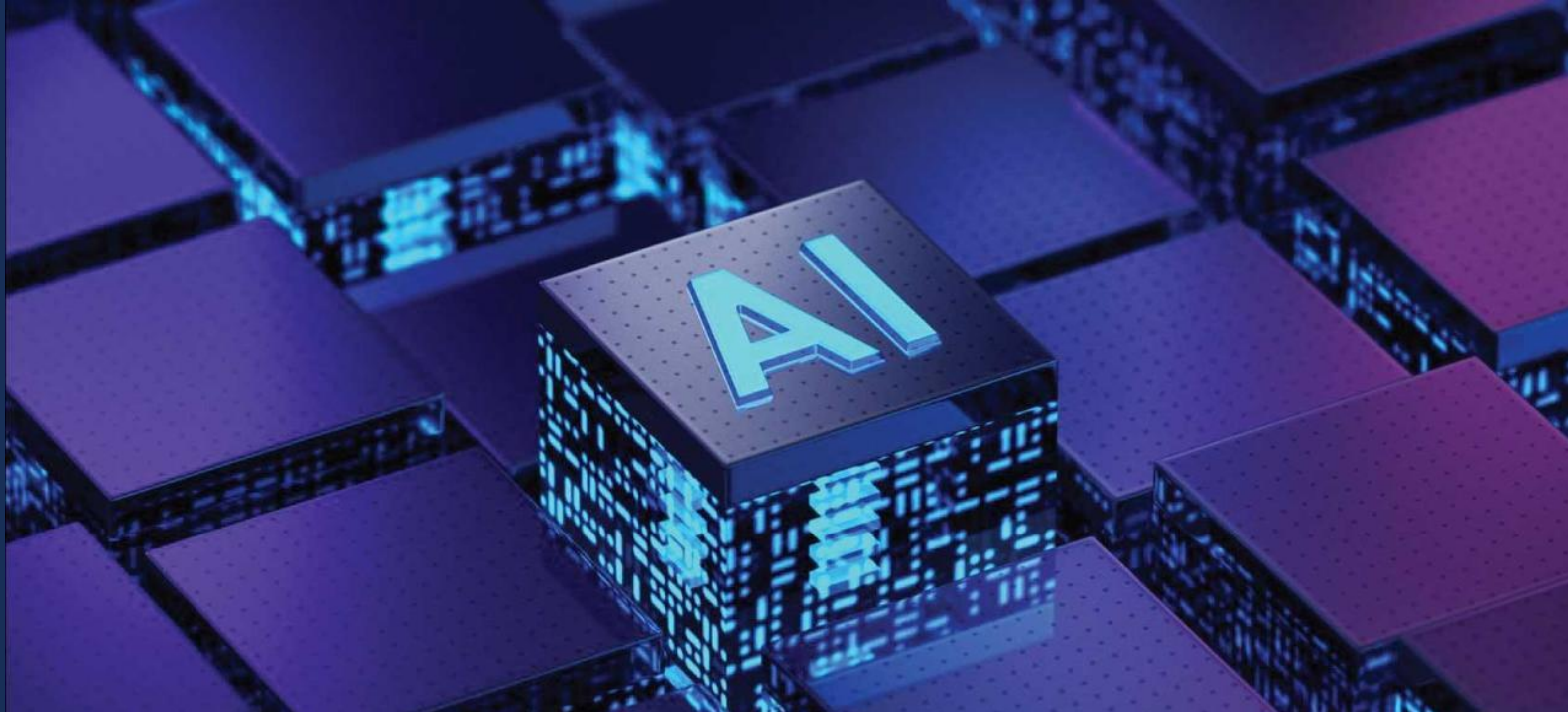
Sessions will focus on:

- building your research team
- writing the proposal
- spending the funds awarded
- leveraging your CoRS award to pursue more externally-funded projects.

WMN+ CoRS mentors for this event include: Carolyn Kaldon (CREP); Melanie Conroy (World Languages and Literatures); Davis Downey (PADM); Yafang Li (MIS); Crystal White (ICL); Ryan Fisher (CCFA); and Alex Headley (Mechanical Engineering).

**Friday, Sept. 8 | 1-2:30 PM (ZOOM)**

Register



## **AI Grant Collaborative Meeting**

*Topics include potential future application for AI for  
Discovery in Materials Research, among others.*

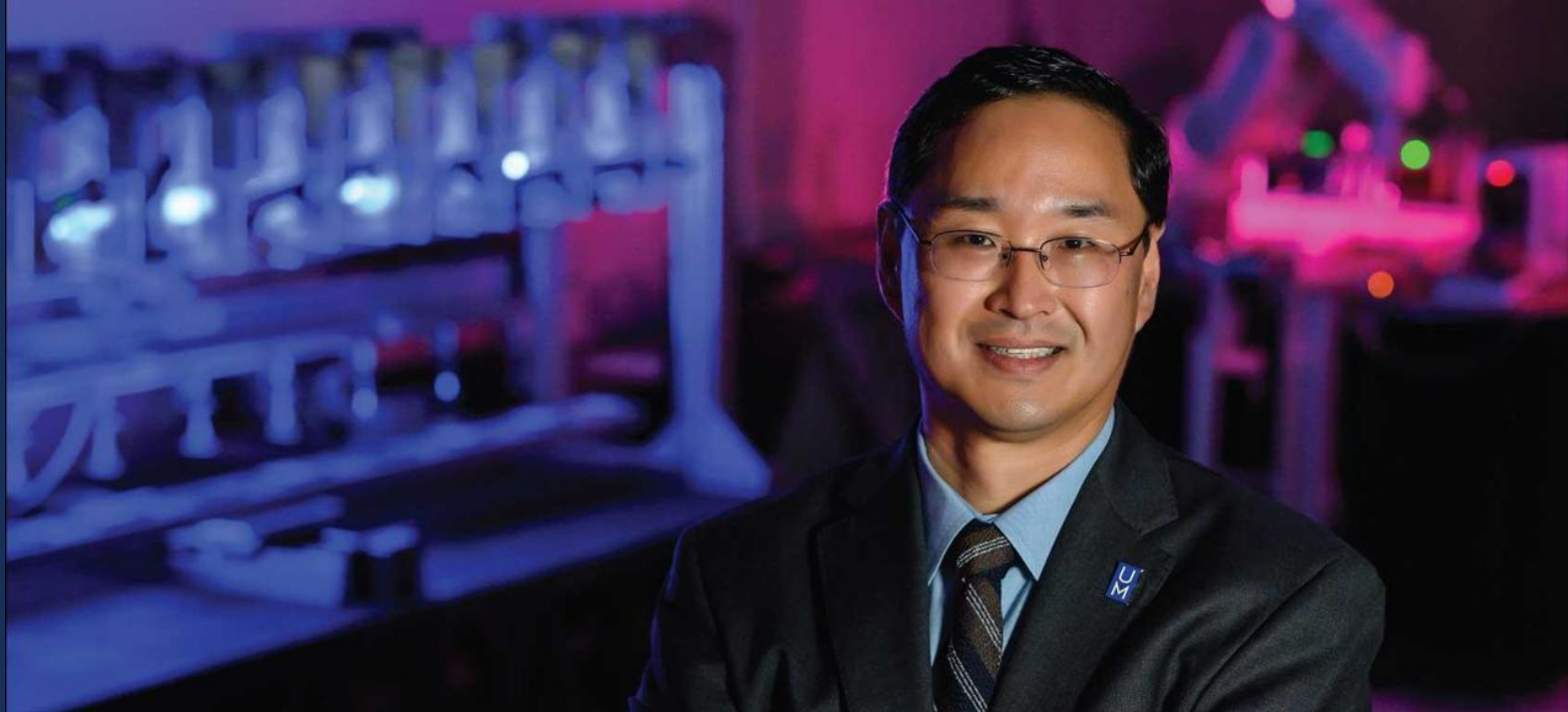
The recent announcement of a second round of AI Institutes from the NSF comes at an important moment for research into artificial intelligence sees increasing visibility in the general public. This meeting is an opportunity to bring together faculty interested in AI research applications from across campus. We invite faculty from all departments to an open meeting to discuss potential collaboration intersections, with an emphasis on forming grant teams.

Topics for grant projects may be presented in the meeting. To share topics in advance, email [researchdev@memphis.edu](mailto:researchdev@memphis.edu).

**Friday, Sept. 22 | 1-2:30 PM**

**FedEx Institute of Technology | Fishbowl (203/205)**

[REGISTER](#)



## **FedEx Institute of Technology Distinguished Speaker Series**

Welcomes

### **Dr. Kevin Berisso**

Associate Professor in Engineering Technology  
and Auto ID Lab Director  
University of Memphis

Berisso's talk will focus on 2D in retail efforts and touch on the TDS 2.0 AIDC+ expansion and the potential impacts upstream (manufacturing/DC level of reading).

Berisso holds a BS in Industrial Technology from Ohio University, an MS in Industrial Technology from Indiana State University and a PhD in Technology Management from Indiana State University.

**Thursday, Sept. 28 | 3 PM (CST)**  
**FedEx Institute of Technology | ZOOM**

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## Research Studies

### Participation Opportunities

Currently available:

- [Center for Information Assurance >](#)
- [Department of Psychology >](#)
- [Speech Perception Assessment Laboratory >](#)

If your department or college would like to have its research study participation opportunities listed, email [thisweek@memphis.edu](mailto:thisweek@memphis.edu).

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## Quick Links

[Research & Innovation News](#) | [Research Clusters](#)

[Quick Guide to Research & Sponsored Programs](#)

[Research Compliance](#) | [Emerging Tech Training](#)

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