

# INNOVATION

## NEWSLETTER

RESEARCH. TECHNOLOGY. ACHIEVEMENTS.

October 2021 • COVID-19 Updates



**Grant from the National Institute of General Medical Sciences will go to study host variation**  
**Adelman leads UoM efforts »**



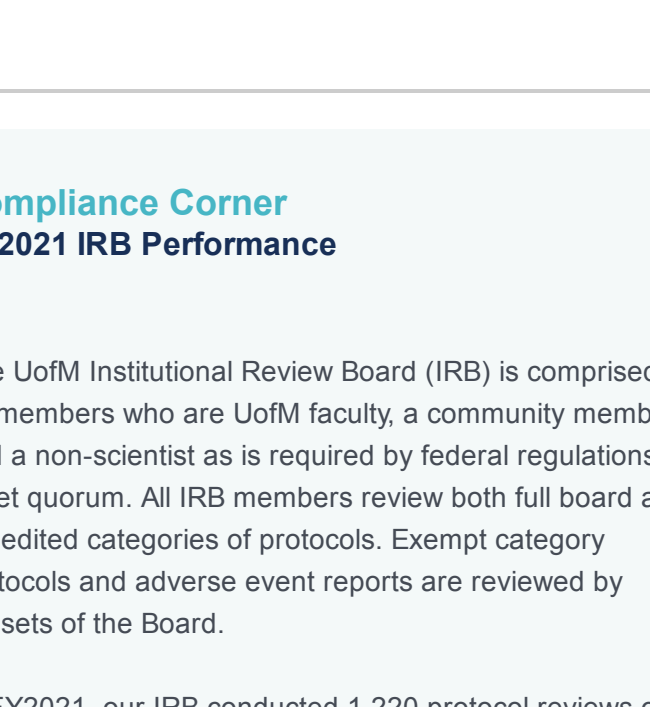
**Faculty Featured in National Publication**  
**Summer articles published in *The Conversation***  
**»**



**Levy Leads Centers for Disease Control and Prevention Project**  
**Immunizations, health disparities and COVID-19 »**



**NIH Professional Development for Faculty**  
**Review services for submissions »**



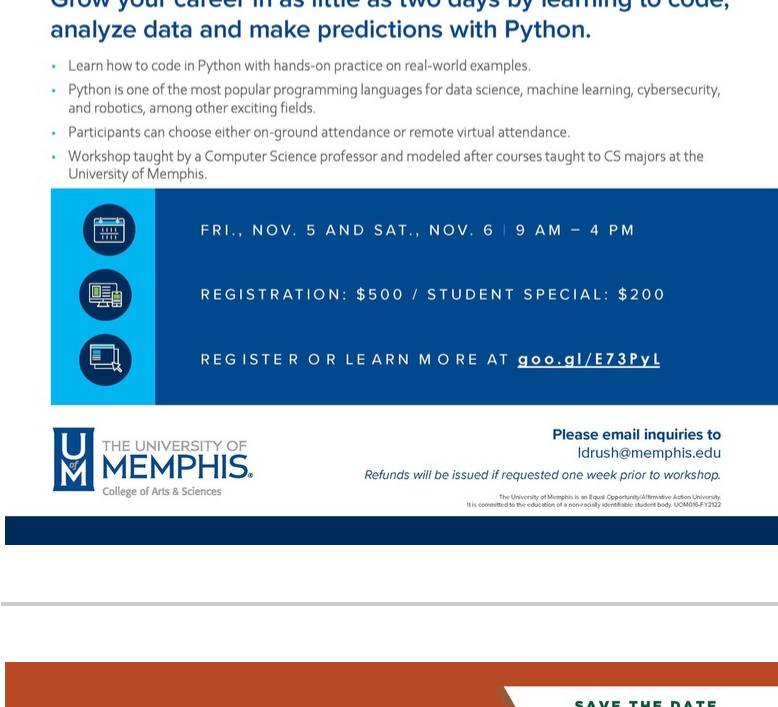
**Fulbright Awards Informational Symposium**  
**Networking and panel discussion »**



**UoM Wins 2020 Mexico - U.S. Innovation Competition**  
**ITESO - Memphis Engineering Exchange »**



**UoM Startup, PopCheck Technologies, Wins National-Level Competition**  
**450 companies applied »**



**FedEx Institute of Technology Welcomes Lynch, UCONN Philosophy Professor**  
**Lynch to speak on social media credibility »**



**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 »

### Compliance Corner

#### FY2021 IRB Performance

The UoM Institutional Review Board (IRB) is comprised of 13 members who are UoM faculty, a community member and a non-scientist as is required by federal regulations to meet quorum. All IRB members review both full board and expedited categories of protocols. Exempt category protocols and adverse event reports are reviewed by subsets of the Board.

In FY2021, our IRB conducted 1,220 protocol reviews of 544 unique protocols. These included 90 full-board protocol reviewed requiring both an administrative and board review which were conducted in 23.36 calendar days for an average of 11.68 days per review. In the Expedited category of review, 418 reviews were required and completed at an average of 6.21 calendar days. The Exempt category of review required 442 reviews averaging 2.89 days each. 181 initial reviews, closures and minor modifications that required only an administrative review averaged 2.07 days to complete.

In total, the 1,220 reviews conducted in FY21 averaged 5.71 calendar days to complete.

For detailed information broken down by schools and colleges, please contact Beverly Jacobik at [jacobik@memphis.edu](mailto:jacobik@memphis.edu).



### TECHNOLOGY SERVING HUMANITY

#### SPEAKER SERIES 2021-22

**SEPT. 7 | 4:30 PM (CST)**  
"Platform Power" with Kathleen Thelen (Virtual)

**SEPT. 14 | 5 PM (CST)**  
"Can we have an ethical internet?" with Moya Bailey (Virtual)

**OCT. 5 | 4:30 PM (CST)**  
"Social Media and Bald Face Lies" with Michael Lynch (Virtual)

**NOV. 12 | 4:30 PM (CST)**  
"Egalitarian Machine Learning" with Clinton Castro

**FEB. 8 | 4:30 PM (CST)**  
"Group Agency and Artificial Intelligence" with Christian List (Virtual)

**MARCH 18 | 4:30 PM (CST)**  
"Surveillance and the Tyrant Test: How to Respond to the Threat of Big Data Policing" with Andrew Ferguson

**MARCH 25 | 4:30 PM (CST)**  
"Understanding Interactions Between Religious and Scientific Communities to Increase Diversity in Science" with Elaine Ecklund

**APRIL 8 | 4:30 PM (CST)**  
"Designing Artificial Intelligence for Racial Justice" with Craig Watkins



**ACCELERATING CODING IN PYTHON**  
**LIVE TWO-DAY WORKSHOP**

Grow your career in as little as two days by learning to code, analyze data and make predictions with Python.

- Learn how to code in Python with hands-on practice on real-world examples
- Enhance your skills with machine learning techniques for data science, machine learning, cybersecurity, and robotics, among other exciting fields
- Participants can choose either one-on-one attendance or remote virtual attendance
- Workshop taught by a Computer Science professor and modulated after courses taught to CS majors at the University of Memphis

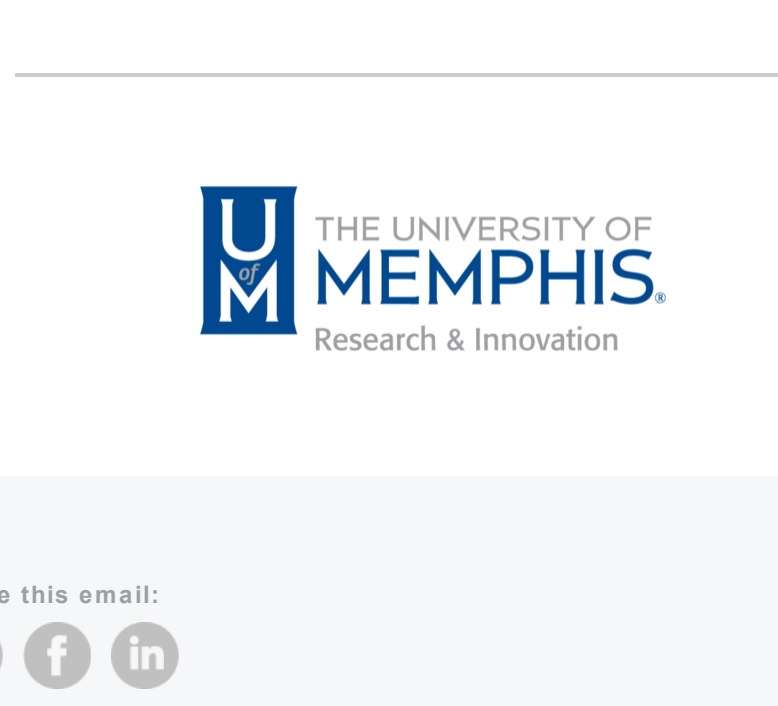
**FRI., NOV. 5 AND SAT., NOV. 6 | 9 AM - 4 PM**  
**REGISTRATION: \$500 / STUDENT SPECIAL: \$200**

**REGISTER OR LEARN MORE AT [go.ajl723.us](http://go.ajl723.us)**



**Blockchain Standardization Landscape**  
Thursday, Oct. 28 | 10 AM (CST)  
Zoom

**Blockchain Ecosystem Overview**  
Thursday, Nov. 18 | 10 AM (CST)  
Zoom



**Blockchain Standardization Landscape**  
Thursday, Oct. 28 | 10 AM (CST)  
Zoom

**Blockchain Ecosystem Overview**  
Thursday, Nov. 18 | 10 AM (CST)  
Zoom

### Research Awards

#### September 2021

**Dr. Dipankar Dasgupta**, Hill Professor in Cybersecurity and director in the Center for Information Assurance, was awarded \$1,014,076 and \$251,346 from the National Security Agency for his project "Cybersecurity education for Critical Infrastructure protection (in Community Development) through Regional Coalition" and "Developing application-specific shared-trust framework for accessing sensitive information."

**Dr. Steve West**, professor and chair in the Department of Counseling, Educational Psychology and Research, was awarded \$566,365 from the Health Resources and Services Administration for his project "Memphis Disadvantaged Student Scholarship."

**Dr. Melissa Hirschi**, assistant professor for the Department of Social Work, was awarded \$544,268 and \$299,829 from the Health Resources and Services Administration for her projects "Peers Engaging and Empowering Recovery (PEER)" and "Memphis Opioid Workforce Paraprofessional Expansion Program."

**Dr. Abby Parrill-Baker**, dean of the College of Arts & Sciences and professor for the Department of Chemistry, was awarded \$525,000 from the Memphis and Shelby Crime Commission for her project "Public Safety Institute."

**Dr. Duane McKenna**, William Hill Professor in the Department of Biology, was awarded \$506,597 from the National Science Foundation for his project "Investigating chemosensory evolution in longhorned beetles using a comparative phylogenomic framework that integrates genomic, morphological, and biochemical data."

**Dr. Larry Slater**, associate dean for Academic Programs in the Loewenberg College of Nursing, was awarded \$484,132 from the Health Resources and Services Administration for his project "RNs-LEAD."

**Dr. Marian Levy**, professor and interim dean of the School of Public Health, was awarded \$478,556 from the Shelby County Health Department with the Centers for Disease Control for her project "COVID-19 Health Disparities in Communities that are at High-risk and Under-served."

**Dr. Susan Neely-Barnes**, professor, director and chair for the School of Social Work, was awarded \$466,762 from the Health Resources and Services Administration for her project "INTEGRATE (Interprofessional Teams Grounded in Apprenticeship, Telehealth, and Evidence)."

**Dr. Leah Windsor**, research assistant professor for the Institute for Intelligent Systems, was awarded \$450,000 from the National Sciences Foundation for her project "Multimodal Signaling and Communication Analysis of World Leaders."

**Dr. Mark LeDoux**, research professor for the Department of Psychology, was awarded \$414,665 from the National Institutes of Health for his project "The Pathobiology and Treatment of the UBTFT E2-10K Neurodegeneration Syndrome."

**Dr. Melvyn Harding**, director of Student Success Programs, was awarded \$275,105 and \$261,888 from the U.S. Department of Education for his projects "TRIO Student Support Service - Classic" and "TRIO Student Support Services - STEM."

**Dr. Kathryn Howell**, associate professor, Clinical (Child and Family) director of Child and Family Studies Research, was awarded \$182,110 and \$57,429 from the University of Notre Dame with the National Institutes of Health for her projects "Pregnant Moms' Program" and \$12,500 from the Mental Research Institute for her project "Examining pandemic-related stress among IPV-exposed mother-infant dyads."

**Dr. Matthew Smetzer**, associate professor, Division of Epidemiology, Biostatistics, and Environmental Health, was awarded \$150,000 and \$49,061 from St. Jude Children's Research Hospital with the National Institutes of Health for his projects "RE-aiming at Hydroxyurea Adherence for Sickle cell with mHealth (RE-HASH)" and "Improving pathologic nodal staging of resected lung cancer."

**Dr. Satish Kedia**, professor, Division of Social and Behavioral Sciences, SBS PhD program coordinator, was awarded \$80,000 from Mending Hearts, Inc., with the Substance Abuse & Mental Health Services Administration for his project "Expanding integrated housing, substance abuse-co-occurring treatment, and support services for homeless women in Tennessee by Mending Hearts."

**Dr. Robin Poston**, dean of the Graduate School and professor in the Department of Business Information and Technology, was awarded \$67,500 from the Tennessee Higher Education Commission for her project "TN Doctoral Scholars Program."

**Dr. Laura Casey**, professor of Instruction Curriculum Leadership, was awarded \$54,670 from the Substance Abuse & Mental Health Services Administration for her project "University of Memphis SMART Center Block Grant."

**Dr. Aaron Robinson**, associate professor for the Department of Electrical Computer Engineering, was awarded \$50,000 from Sivananthan Laboratories for his project "Novel Image and Signal Processing Embedded System Development."

**Dr. Alisha Rose**, director in Career Services, was awarded \$50,000 from the Association of Public and Land Grant Universities (APLU) for her project "Tiger Career Ready Program."

**Dr. Wendy Griswold**, assistant professor and director for 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."

**Dr. Lavonnie Perry Claybon**, director of Mid-South Access Center for Technology, was awarded \$39,426 and \$12,475 from the U.S. Department of Health and Human Services (U.S. DHHS) for her project "Tennessee Technology Access Program" and "Tennessee Technology Access Program (TTAP) - Supplement."

**Dr. Farhad Jazaei**, assistant professor for the Department of Civil Engineering, was awarded \$25,735 from Brown and Caldwell for his project "Research - Microplastics in Stormwater."

**Dr. Kerli Brondo**, professor and chair for the Department of Anthropology, was awarded \$21,516 from Innovate Memphis for her project "Ethnographic Support for City Innovation."

**Dr. Jennifer Mandel**, associate professor for the Department of Biological Sciences, was awarded \$19,748 from the National Science Foundation for her project "EAGER: Resolving the Evolutionary History of the Sunflower family in the Face of Rampant Gene and Genome Duplications."

**Dr. Brian Waldron**, associate professor of Civil Engineering and director for the Center for Applied Earth Science and Engineering (CAESER), was awarded \$16,100 from the City of Bartlett for his project "Bartlett GW Support" and was awarded \$5,000 from the City of Millington for his project "CAESER GW Support."

**Dr. Kristoffer Berlin**, associate professor, Clinical (Child and Family) Psychology, was awarded \$14,433 from the University of Tennessee - Knoxville with the National Institutes of Health for his project "Translating basic habituation research to childhood obesity treatment."

**Dr. Stephanie Ivey**, associate dean for Research, Herff College of Engineering and professor of Civil Engineering, was awarded \$14,324 from Gannett Fleming, Inc., with the American Association of State Highway and Transportation Officials for her project "TSMO Workforce Summit."

**Dr. Bentuo Zheng**, professor for the Department of Math Sciences, was awarded \$8,400 from the Simons Foundation for his project "The Geometry of Banach Spaces."

**Dr. Chrisann Schiro-Geist**, professor for Counseling, Educational Psychology and Research, was awarded \$7,500 from the Alabama Council on Developmental Disabilities for her project "Alabama A&M University Post Secondary Program for Young Adults with IDD."

**Dr. Ranganathan Gopalakrishnan**, UMRF Ventures assistant professor of Mechanical Engineering, was awarded \$2,400 from Allworld Project Management LLC for his project "Allworld Project."

**\* 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**

**Research & Innovation News**

**Research Clusters**

**Emerging Tech Training**

**Andreas Quantum Research: Travis Humble**

**Deputy Director at the Department of Energy's Quantum Science Center at Oak Ridge National Laboratory and Director of ORNL Quantum Computing Institute**

Oct. 1 | 9-10 AM | Zoom

**Flipped Classroom: Grant Narravides**

Oct. 1 | 10-11 AM | Zoom

**Technology Serving Humanity Speaker Series: Misha Luvch, Social Media and Bald Face Lies**

Oct. 5 | 4:30 PM | Virtual

**DevMemphis**

Oct. 5 | 6-7:30 PM | FIT 225

**Machine Learning/Data SciencesIR**

Oct. 5 | 7-8 PM | Virtual

**FIT Emerging Tech Training: Impactful Training & Speaking**

Oct. 7 | 9 AM-6 PM SG-HK Time | Virtual

**Fulbright Networking & Panel Discussion**

Oct. 7 | 3-4:30 PM | FIT 103

**Memphis Web Workers**

Oct. 12 | 6-8 PM | Virtual

**Understanding Honorifics**

Oct. 14 | 2:30-3:30 PM | Virtual

**MemPASS / Power BI**

Oct. 14 | 5:30-7:30 PM | FIT 225

**Statistics Research Consulting Exchange**

Oct. 15 | 10-11:30 AM | Virtual

**Foundation Friday: Briggs Foundation**

Oct. 15 | 11 AM-12 PM | Virtual

**Memphis Game Developers Workshop**

Oct. 16 | 6-8 PM | Virtual

**Memphis Python**

Oct. 18 | 6:30-8:30 PM

**Panel Discussion: Intersections of STEM and Arts/Humanities for Grants**

Oct. 21 | 2-3:30 PM | Virtual

**Memphis M365 Users**

Oct. 21 | 3-5 PM | Hybrid

**Finding Research Study Participants Panel Discussion**

Oct. 22 | 11:30 AM-1 PM | FIT Fishbowl

**UX/UI Bytes**

Oct. 22 | 11:30 AM-12:30 PM | Virtual

**Research Resource Highlight: Obesidian Social Media Lab**

Oct. 22 | 2-3:30 PM | Virtual

**FIT Emerging Tech Training: Emerging Tech Training Management**

Oct. 26-28 | 8 AM-4:30 PM | Virtual

**Memphis Xamarin**

Oct. 26 | 6-8 PM | Virtual

**Memphis PHP**

Oct. 26 | 6:30-8 PM | FIT 225

**FIT Blockchain901 Speaker Series featuring Ramesh Ramadoss: Blockchain Standardization Landscape**

Oct. 28 | 10-11 AM | Virtual

**Flipped Classroom Series: Compliance Requirements**

Oct. 28 | 2-3 PM | Virtual

**Business Agility Memphis**

Oct. 28 | 6-7:30 PM | Virtual

**Memphis .NET**

Oct. 28 | 6-8 PM | Virtual

**Navigating Post Award Panel Discussion**

Oct. 29 | 10-11:30 AM | FIT 225

**Research for the newsletter? Contact us.**

**UMRF**

**For the latest news and economic development initiatives at the research park, visit the website »**