**March 2019** 

**UofM Honors Faculty Accomplishments At Annual** Celebration













challenges.

Focusing on Agriculture and Food **Technologies** Leveraging expertise in core biological, chemical and environmental science research alongside expertise in big data, artificial intelligence and engineering, the

UofM will seed interdisciplinary research

solutions to agriculture and food industry

that will contribute new knowledge and

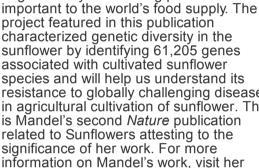
The cluster will be co-led by Dr. Duane

McKenna, associate professor in the Department of Biological Sciences and world-renowned entomologist who studies the evolution and genomic basis of plant-feeding and interactions between beetles and plant, and Dr. Pratik Banerjee, associate professor in the School of Public Health and expert on food safety, regulatory policy and the molecular, hazard interactions. The cluster also

# development. CEED has now expanded to

hosting monthly meetings for childcare center directors to engage in network and expand their practices. Notably, CEED, in collaboration with community partners, will

make Memphis the first city in the nation to simultaneously implement all three formats of LENA®, the industry standard for measuring talk with children from birth to age three. To learn more about CEED, click <u>here</u>. Dr. Kimbrough Oller, professor and Plough Chair of Excellence, School of Communication Sciences and Disorders, is a scientific advisor to LENA®, was one of the developers of LENA Start<sup>™</sup> and uses LENA® technology in his research. Mandel's Research Featured in **Nature Plants** Second publication related to sunflower research



characterized genetic diversity in the sunflower by identifying 61,205 genes associated with cultivated sunflower species and will help us understand its resistance to globally challenging diseases

**UofM Office of Technology** Technology Transfer (OTT) within the Division of Research & Innovation kicked off 2019 with confirmation from the U.S. Patent and Trademark Office (USPTO) with notifications of the receipt of two U.S. patent allowances and one U.S.-issued patent, bringing the year's total to three so Dr. Bashir Morshed received notification he was issued the U.S. patent for his submission "Multi-layer Additive Printed Circuit." **Dr. Mohd Hasan Ali** received notification for his patent allowance on "Mitigation of Adverse Effects of Geomagnetically Induced Currents on Transformers." And, **Dr. Gary Bowlin** and

Dr. Isaac Rodriguez received a notice of

allowance for "Compositions and Methods for Enhancing Healing and Regeneration of Bone and Soft Tissue."

technologies, read the full press release

For more information on these

conversations over breakfast. The first topic was 'Omics' and involved 11 faculty discussing interests in genomics, proteomics, metabolomics, microbiomics and bioinformatics. If you have an idea for a future topic, or would like more information on the series, contact Francoise Mireles at

with specific questions regarding the series, or to RSVP. A light lunch is provided.

development around critical skills and create opportunities for networking and interdisciplinary collaboration across

campus. Contact research@memphis.edu

CAST DATA SCIENCE **DRONES** 

Dr. Latrice Pichon, associate professor of Social and Behavioral Sciences in the

Headliners Whole You University: Capacity

Building Efforts to Address Social

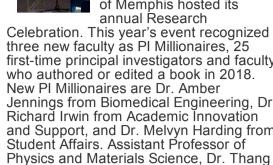
Dr. Irma Quiñones-Maurás, Health Sciences Librarian, was awarded \$1,671 from the National Institutes of Health (NIH) in collaboration with the University of Maryland for her project "NNLM SEA All of US Community Engagement."

Determinants of HIV.'

\* Data is reported on the 18th of each month. Any awards finalized after the 18th of each month will be reported in the following month's report.

#### Celebration Honors Faculty Accomplishments On Feb. 28, the University of Memphis hosted its





first-time principal investigators and faculty who authored or edited a book in 2018. New PI Millionaires are Dr. Amber Jennings from Biomedical Engineering, Dr. Richard Irwin from Academic Innovation and Support, and Dr. Melvyn Harding from Student Affairs. Assistant Professor of

annual Research

Powe Junior Faculty Enhancement Award for his project, "Dual-band plasmonic nanostructures for efficient light absorbing and emitting devices." For more information on this event or the awards, please contact Deborah Hernandez at dhernndz@memphis.edu. Building a **Publishing Pipeline:** 

Ba Hoang received special recognition as

the 2018 recipient of the prestigious Oak

Ridge Associated Universities Kalph E.

In partnership with the UofM Office of Diversity, the Division of Research &





celebrate the grand opening of phase 1.1

Technology is a data driven parcel delivery

management solution that works with the biggest retailers in the United States. Their

new facility at the research park will focus

on technology innovation, collaborating with researchers and hiring students. Join

us for a meet and greet as we welcome

at the Highland facility. Green Mountain

RAIN

RAIN RFID ALLIANCE

2019 Americas Meeting

#### this exciting anchor to phase one of the research park intiative. For more information on the research park, visit umrfresearchpark.org.

THE AUTOMATIC **IDENTIFICATION LAB** 

The Lab Tour Series, presented by the FedEx Institute of Technology, hosts their next tour at the Auto Identification Lab March 19. Located in room 226 of the Engineering Technology Building, Dr. Kevin Berriso and his team of researchers

here.

**Cognitive Science** 

Seminar Talk

MAR. 19 | NOON-2 PM ENGINEERING TECH BUILDING

**POOM 226** 



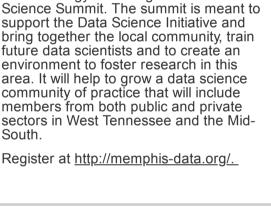
Dr. Michael Mozer, professor with the Department of Computer Science and the Institute of Cognitive Science Behavior at the University of Colorado, will speak on March 20, as part of the Cognitive Science Seminars series on "Boosting inductive learning of visual concepts". He is currently working with Google Al on their Google Brain Team, which focuses on advancing the state of the art in artifical intelligence through research, systems intelligence through research, systems engineering and collaboration with other teams across Alphabet. Register here for this talk.

SCIENCE

SUMMIT

Innovation

Inauguration of



Research Cluster at the FedEx Institute

of Technology is hosting the 2019 Data

Intelligent Tutoring Systems are an effective alternative, but they can be timeintensive and expensive to create. This invention automates the process by transforming textbooks into Intelligent Tutoring Systems. The key innovation is the

extraction of conceptual graphs from textbooks. Conceptual graph represent the relationships between concepts in the textbook, and the can be used to assess

explanations, an even answer questions. Using this technology can substantially reduce the cost of creating Intelligent Tutoring Systems and realize the dream of

providing one-on-one tutoring to every

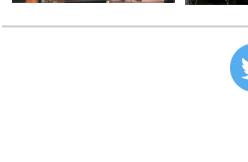
student understanding, provide

CALENDAR DevMemphis Meetup Mar 5 | 6-7:30 PM | FIT 226 Machine Learning/Data Sciences/R <u>Meetup</u> Mar 5 | 7–8 PM | FIT 225 Memphis Web Workers User Group Mar 12 | 6–8 PM | FIT 225 Memphis Game Developers Meetup Mar 13 | 6–8 PM | FIT 225

PHP User Group Meetup Mar 26 | 6:30–8 PM | FIT 225 R Immersion Workshop Mar 27-28 | 8 AM – 5 PM | FIT 225 MWIT Luncheon Mar 28 | 3–6 PM | Fishbowl 203/205

<u>SAS: SQL 1: Essentials</u> Mar 25-26 | 8 AM – 5 PM | FIT 313

## R Immersion Workshop Mar 27-28 | 8 AM – 5 PM | FIT 225 **GIVE CAMP MEMPHIS 2019**



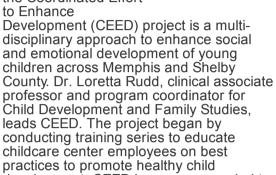


Share this email:

This email was sent to .

emma

immunological and cell biological aspects of host-microbes and host-environmental includes faculty with expertise in plant/crop research, bioproducts development, food processing and packaging, immunology, water resources, computer and network security, and chemical analysis. "This initiative supports the regional push to attract new agriculture and food technology companies and bring good jobs to our region," said Dr. Jasbir Dhaliwal, executive vice president for Research and Innovation. "We are uniquely positioned to bring expertise that Concrete will help address opportunities within this Strategies for field as it rapidly moves to adopt Increasing Your technology solutions to challenges in food safety and quality, fraud management, Writing Productivity Workshop logistics and new product development in a highly regulated environment. Read the full press release here. Innovation brought the Building a Publishing Pipeline: Concreate Strategies for Increasing Your Writing Productivity **CEED Project** Working with **Families:** Early Talk Matters In partnership with the Urban Child Institute, the Coordinated Effort to Enhance Development (CEED) project is a multidisciplinary approach to enhance social and emotional development of young children across Memphis and Shelby



New work from Jennifer Mandel and her collaborators appears in the Dec. 31, 2018 edition of prestigious journal Nature Plants. Mandel, assistant professor in Biological Sciences, is an evolutionary plant biologist who works to understand genetic, phenotypic and ecological diversity in plant species. She

has a particular focus on the genetic variation of the sunflower, which is the largest family of flowering plants and



Research and Networking **Breakfast Series** Begins with Focus on 'Omics' Collaboration is essential in today's research environment. To facilitate interactions among faculty from different disciplines around common areas of

interest, this topical series features brief

research updates and time for 1:1

fmreles1@memphis.edu.

FACULTY RESEARCH WORKSHOP SERIES **Finding Funding for** Commercialization **STEM Disciplines** and Tech Transfer March 15 | Noon-2 PM April 12 | Noon-2 PM Fishbowl (203/305) Fishbowl (203/305) Join the Division of Research & Innovation Team for these free, monthly sessions designed to help faculty and doctoral students answer frequently asked questions, provide professional

### RESEARCH CLUSTERS

SMART CITIES

**New Awards: February** 

Dr. Bernie Daigle, Jr., assistant professor in the Departments of Biological Sciences

and Computer Science, was awarded \$6,457.50 from the US Army Research Office for his project "Identification of Robust Biomarkers for Post-traumatic

Stress Disorder Using Longitudinal Analysis."

Dr. Deborah Moncrieff, assistant professor, School of Communication Sciences and Disorders, was awarded \$107,198 from the National Institutes of Health (NIH) in collaboration with University of Colorado-Denver, for her project "TACIT Teletherapy."

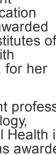
Dr. Matthew Smeltzer, assistant professor in the Department of Epidemiology, Biostatistics and Environmental Health in the School of Public Health, was awarded \$27,213 from the Memphis Research

ADDITIVE MANUFACTURING **AGRICULTURE & FOOD TECHNOLOGIES BIOLOGISTICS** 

Dr. Mark LeDoux, affiliate research professor professor in the Department of Psychology, was awarded \$40,000 from the Dystonia Medical Research
Foundation for his project "Banking of
Myoclonus-Dystonia Biological Materials." School of Public Health, was awarded \$10,000 from the Tennessee Department of Health (TDoH) for her project "The

Consortium (MRC) in collaboration with the University of Tennessee Health Science Center (UTHSC) for his project "ECOSYSTENN." Dr. Danielle Vance-McMullen, assistant professor in the Department of Public and Nonprofit Administration, was awarded \$27,213 from the National Philanthropic

Trust for her project "DAF Report."









**MICHAEL MOZER, PH.D** PROFESSOR
UNIVERSITY OF COLORADO MARCH 20 | 4-6 PM FEDEX INSTITUTE OF TECHNOLOGY ROOM 405

March 29 | 8 AM – 5 PM | FIT MPT (103)On March 29, The Data Science



Psychology, was issued a U.S. patent for his submission "System and Method for Automatic Extraction of Conceptual One-on-one tutoring is the most effective form of learning, but human utors are a scarce resource. Computer-based

professor in the Department of

**Tech Transfer:** 

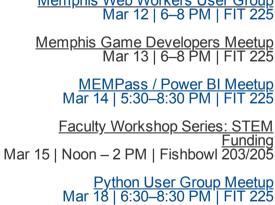
System and Method

Conceptual Graphs

for Automatic Extraction of

UofM faculty, Dr. Andrew McGregor Olney, associate

For more information on UofM technologies available for commericalization, visit the tech transfer website or contact Dr. Hai Trieu hhtrieu@memphis.edu.



<u>Lab Tour: Auto Identification Laboratory</u> Mar 19 | Noon – 2 PM | Engineering Tech Building 226

IIS Talk: Cognitive Science Seminar Talk Mar 20 | 4–6 PM | FIT 405

SAS: SQL 1: Essentials Mar 25-26 | 8 AM – 5 PM | FIT 313

Tableau Meetup Mar 21 | 3–5 PM | FIT 225

Mar 28 | 6–8 PM | FIT 225

<u>Data Science Summit</u> Mar 29 | 8 AM – 5 PM | FIT MPT (103)





View this email online. 365 Innovation Drive, Suite 303 Memphis, TN | 38152 US

Manage your preferences | Opt out using TrueRemove™ Got this as a forward? Sign up to receive our future emails.

To continue receiving our emails, add us to your address book.