

From our first-time Pls to our Pl Millionaires, every member of our research community is vital to the success and growth of our research institution. Join us as we recognize and celebrate these esteemed researchers.

RESEARCH CELEBRATION Feb. 25 | 3:30 PM

UC River Room Reception to follow.

IIS Team

Developing

AI-Driven

Training

DataWhys, an

Platform As part of \$3.4

RESEARCH

million grant The University of Memphis Institute for Intelligent Systems (IIS) has secured major funding to create DataWhys, a tutor integrated into professional data science software to support on-the-job data science training. The research team, led by **Dr. Andrew Olney**, professor in IIS and the Department of Psychology, will advance understanding of how data

science is learned and how to optimize

that learning by identifying the most

effective learning supports across a range of skill levels. The work will synthesize previous work in the related fields of statistics, programming, and machine learning, each of which has used only a few of the learning supports and techniques that will be comprehensively investigated in this project. Through a partnership with the data science division of St. Jude Children's Research Hospital and Novartis, and through a summer internship for STEM majors from LeMoyne-Owen College, the research team will conduct longitudinal studies to provide additional evidence regarding workforce relevance via usability metrics and progress in personal learning plans. The software and training materials developed by this grant will be freely shared to help train the next generation of data scientists. Co-PIs for this grant are

Dr. Vasile Rus, William Dunavant

professor in Computer Science; Dr. Scott Fleming, associate professor in Computer Science; Dr. Dale Bowman, associate professor in Mathematical Sciences; **Dr.** Andrew Tawfik, assistant professor in Instruction and Curriculum Leadership; and Dr. Natasha Sahr, senior principle biostatistician at Novartis. For more information on this research, contact Olney at aolney@memphis.edu. Read full <u>press release</u>. **Curry's Grant** to Focus on **Side Effects of Amputations** \$116,432 used to focus on phantom limb sensations and pain

Major limb amputation affects millions of people worldwide. Following amputation, almost all patients have phantom limb sensations (PLS) and over 85% develop phantom limb pain (PLP). Despite its documented existence for several hundred years, the etiology of PLP remains unknown. Experimental evidence demonstrates that cortical maps

sensorimotor cortex reorganize following

limb amputation. This grant was awarded

to **Dr. Amy Curry**, associate professor in

representing a limb within the

the Department of Biomedical

Engineering, for her project "Investigations into the Etiology of Phantom Limb Sensations and Phantom Limb Pain" from the National Institutes of Health in collaboration with UTHSC. The principal hypothesis is that, rather than simple cortical reorganization, rapid, but reversible changes, in addition to delayed changes, occur in the cortical network connecting various brain regions, leading to the development of PLS and PLP. The team will study PLP and PLS in a clinical

setting of brachial plexus anesthesia, brain functional imaging to determine the basis of efficacy of mirror therapy in treating PLP, and an animal model to examine pathophysiology of changes in the brain after amputation and deafferentation. For more information on this project, contact, Curry at <u>adejongh@memphis.edu</u>. **UofM Lead** Participant in Genomic Research Research featured

The evolutionary innovations of insects and other arthropods – the most diverse

engineering. Some insects contribute vital ecosystem services, including pollination

and decomposition, while others are pests

DNA sequencing allows us to study the

extraordinary diversity. An international

team of scientists, including researchers from the McKenna Lab at the University of

Adding the 28 genomes they sequenced to previously sequenced ones enabled a uniquely large-scale comparative analysis

involving genomes from 76 arthropod species. Their results have wide-ranging

implications for our understanding of the

evolution and genomic basis of arthropod

biology, including insect form and function. Moreover, they support a diversity of new

research at the interface between insects

and humans, and involving the roles and management of insects in agriculture, forestry and natural ecosystems.

Learn more about McKenna's work. Read

group of animals on Earth – are as numerous as they are fascinating, from

fangs, silk and stingers to exquisitely colored wings and ingenious feats of

of agriculture or spread diseases.

genomic blueprints underlying this

Memphis led by Dr. Duane McKenna, William Hill Professor in Biology, report in the journal *Genome Biology* the results from a project designed to kick start the sequencing of genomes from thousands of arthropod species (the Insect 5,000 Genomes Project; i5k).

the full press release. Read paper in Genome Biology, Gene content evolution in the arthropods. **Dr. Christine** Bertz and **CREP Partner Smithsonian Education** Center

Will lead evaluation efforts on grant

The Center for Research in Educational

Smithsonian Science Education Center

(SSEC) on a new \$4.4 million, five-year

Innovation and Research program. The

evaluation for the grant will be performed by CREP, with **Dr. Christine Bertz** serving

grant awarded to SSEC by the U.S. Department of Education's Education

as the principal investigator, and will

Zoblotsky and Dan Strahl, CREP

associate director, will serve as co-PI's.

Bertz coordinates all CREP involvement in

SSEC will bring "Smithsonian Science for

North and South Carolina Classrooms" to

assess the impact on student

achievement. Dr. Todd

projects with SSEC.

the curriculum modules.

partner.

is serving as a subawardee to the

Policy (CREP) in the College of Education

more than 11,250 students in grades 3-5 in rural North Carolina and South Carolina in partnership with two community partners —the North Carolina Science, Math and Technology Center and the South Carolina Coalition for Mathematics & Science. In addition to the curriculum modules, SSEC will develop and implement differentiated science and

engineering professional development to

support the content and pedagogy within

Since 2010, CREP's partnership with the

has brought in almost \$7 million dollars to

the University of Memphis through eight grants and contracts. Projects have been

New Mexico and Denver and surrounding

Smithsonian Science Education Center

conducted in North Carolina, Houston,

areas in Colorado. Although CREP has

ongoing LASER Focused OELA grant,

where the SSEC serves as a sub-award

frequently collaborated as the third-party evaluator, it is the prime recipient of the

For more information on this initiative, contact Bertz at cabertz@memphis.edu. Fighting the **Opioid Crisis** in Tennessee UofM faculty partners to address access to treatment In 2017, Tennessee had the third highest opioid prescription rate in the country, and 1.5 times greater than average U.S. rate. Despite successful attempts to reduce these rates (2017 was 25% down from the prior year), the treatment of opioid-

addicted individuals in the state remains a major cause for concern and the opioid

abuse crisis continues to cause havoc,

this mountainous region, over 80% of

of Public Health Division of Social and Behavioral Sciences, has spent much of the last decade addressing this critical challenge within the context of his research in alcohol and drug abuse

treatment and prevention; sexuality and HIV/AIDS; caregiving and adherence; and

program evaluation and impact

especially in the Appalachian counties of Tennessee. Despite the acute need for opioid use disorder (OUD) treatment in

those needing treatment do not receive it. Dr. Satish Kedia, professor in the School

assessment. His most recent work, a partnership with Buffalo Valley Rehabilitation Centers, will utilize a novel outreach strategy to expand access to medication-assisted treatment and psychosocial services along with transitional housing for OUD clients. This project, part of a larger \$500,000 award in collaboration with the University of Baltimore, will assist with implementing a multi-faceted approach to person-centered outreach, treatment, housing, and evaluation in the target population. For more information on this project, contact Kedia at skkedia@memphis.edu. Geofoam **Expert**

Continues

TDOT

Pioneering

Research with

UofM's Arellano

receives grant to

continue work

roadways, parking lots, and in bridge construction. **Dr. David Arellano**, associate professor in Civil Engineering, has been pioneering research in this important construction material for more than a decade at the University of Memphis and was recently awarded \$174,989 by the Tennessee Department of

Transportation to continue this work. Specifically, Arellano will be exploring the

performance of geofoam walls being

constructed along Poplar Avenue in

For more information on this project,

Moving Tennessee Forward in

According to latest data from the National

Research & Development (HERD) survey,

the University of Memphis single-handedly

Science Foundations' Higher Education

outperformed the combined research

Boosting research to provide the foundation for a modern Tennessee

instrumentation results.

darellan@memphis.edu.

contact Arellano at

Research

Memphis. He will also be developing a geofoam design guideline and special provision for the use of geofoam in Tennessee, based on the field

If you've ever driven down the interstate, you have likely interacted with geofoam without even realizing it. Geofoam is an expanded or extruded polystyrene whose primary use is filling large voids under

efforts of the next six largest research universities in Tennessee. The University of Tennessee Chattanooga, Middle Tennessee State University, Tennessee

Research Awards

December 2019

Services Training)."

awarded \$400,000 from the Tennessee Department of Agriculture for his project "Department of Ag West TN." **Dr. Keri Brondo**, professor and chair of the Department of Anthropology and affiliated faculty in the Department of Interdisciplinary Studies, was awarded \$238,245 from the Tennessee Department of Education for her project "Governor's School for International Studies, 2020." **Dr. Amy Curry**, associate professor of the Department of Biomedical Engineering, was awarded \$116,432 from the National Institutes of Health in collaboration with the University of Tennessee Health Science Center for her project "Investigations into the Etiology of

Phantom Limb Sensations and Phantom

Dr. Thomas Goebel, assistant professor of the Center for Earthquake Research and Information, was awarded \$41,485

from the U.S. Department of Energy in

his project "Assessing crustal stresses

Dr. Brian Waldron, associate professor of the Department of Civil Engineering

Technologies, Inc. for his project "MLGW

Dr. Christina Bertz, assistant professor

of the Center for Research in Educational

Policy, was awarded \$25,000 from the

Memphis for her project "WFGM Vision

Dr. Mohd Ali, associate professor in the

Department of Electrical and Computer Engineering, was awarded \$5,000 from

the Electric Power Research Institute for

his project "Design and Operation of

Utility Integrated Photovoltaic (PV)

Women's Foundation for a Greater

and director of the Center for Applied

Earth Science and Engineering was

awarded \$36,515 [ST(1] from Conch

street lights phase 1."

2020 Initiative FY2020."

and induced seismicity distributions in light of active fluid injection and extraction

collaboration with the Regents of the University of California, Santa Cruz for

Limb Pain."

operations."

Literatures, was awarded \$4,750 from the Association for Asian Studies, Inc., for his project "2020 Annual Conference of the Southeastern Association of Teachers of Japanese (SEATJ)." January 2020 **Dr. Mohamed Laradji**, professor in the Department of Physics and Material Science, was awarded \$309,367 from the National Science Foundation for his project "Membrane-Induced Self-Assembly of Anisotropic Nanomaterials." **Dr. Robin Poston**, professor of the Department of Business Information and

Technology and dean of the Graduate School, was awarded \$120,000 from the Air Force Institute of Technology (AFIT) in collaboration with MacCaulay-Brown, Inc. for her project "Testing & Evaluation for

Autonomous Cyber-Physical Systems:

Research and Industry Best Practices."

Department of Education in collaboration

Dr. John Sabatini, professor in the Institute for Intelligent Systems, was

with Georgia State University for his

project "Identifying Risk Factors and

Performing at the Lowest Levels of

PIAAC in the United States."

Predictors of Literacy Skills for Adults

Dr. Marie van der Merwe, associate

professor of the School of Health Studies,

was awarded \$36,037 from Kaneka Corp.

Dr. Daniel Larsen, professor and chair of

the Department of Earth Sciences, was awarded \$32,000 from the City of

Collierville for his project "Collierville GW

Dr. Lily Afshar, professor in the Rudi E. Scheidt School of Music was awarded \$7932 from the Augustine Foundation for her eighth Memphis International Guitar

* Data is reported on the 18th of each month. Any awards finalized after the 18th of each month will be reported in

for her project "Safety and efficacy of a probiotic supplement: focus on lessening

GI distress in endurance athletes."

Quality Research."

awarded \$60,352 from the U.S.

RESEARCH **CLUSTERS** AGRICULTURE & FOOD TECHNOLOGIES

NEWS TO FEATURE IN THE **RESEARCH + INNOVATION NEWSLETTER?**

We welcome the opportunity to

and innovation capabilities at the University of Memphis. Email major

be held at the UofM, honors,

in an upcoming issue of the

the University of Memphis.

sharing the world-class

CONTACT US

publications, research impact stories, initiatives, etc., for inclusion

newsletter. We look forward to

accomplishments taking place at

highlight the research infrastructure

award notifications, conferences to

news and happenings at the research park Redefining the University District and strengthening Memphis' economic impact View website here. ENTREPRENEURIAL DEEP SCIENCE POST DOCS WANTED Turning patented intellectual property into successful companies. Apply today.

Visit the website for the latest

State University, East Tennessee State University, Tennessee Tech and Austin Peay had combined research expenditures of \$61,850,000 compared to the University of Memphis' \$64,297,000. The UofM continues to grow as a research powerhouse in the State of Tennessee as we continue our pursuit of the top tier Carnegie R1 status. Kudos to UofM faculty and researchers whose efforts are driving

Dr. Chrisann Schiro-Geist, professor of

the Counseling Educational Psychology

& Research, was awarded \$1,974,264

from the U.S. Department of Education

FIRST (Finding Innovative Rehabilitation

Chemistry, was awarded \$742,139 from the National Science Foundation for his project "CAREER: A Model-Building Platform for Rational, Reproducible, and Rigorous Computational Enzymology."

for her project "Topic Area 6: Project

Dr. Nathan DeYonker, assistant

professor in the Department of

Dr. Brian Waldron, associate professor of the Department of Civil Engineering and director of the Center for Applied Earth Science and Engineering, was

System as Supercapacitor Energy **Dr. Hironori Nishi**, assistant professor in the Department of World Languages and

the following month's report.

BIOLOGISTICS **CAST** DATA SCIENCE

DRONES

TO RESEARCH AND SPONSORED PROGRAMS

Reviewing, Submitting and **Accepting Funded Research**

Research Development and Sponsored

contracts, cooperative agreements, non-

monetary) to external sponsors and for the

review and acceptance of any sponsored

teams responsible for the review and submission of proposals (grants,

project funds. The team includes Pre-

Award Services, Contract and Award Services, Electronic Research

Development. They are located in 315

Administration and Research

Quick Guide available <u>here</u>.

Administration Building.

Programs are the central research support

A resource for faculty and staff

youth with IDD in finding and retaining a job. The University of Memphis Institute on

Dr. Chrisann Schiro-Geist, professor in Counseling Educational Psychology and Research (CEPR), recently received a grant to fund her project, Project FIRST (Finding Innovative Rehabilitation Services Training). The goal of this project is to

Schiro-Geist

\$1.974 Million

vocational rehab

Receives

shortages in

Grant To address

MEMPHIS.

address the shortage of qualified vocational rehabilitation (VR) counselors and pre-employment transition services (Pre-ETS) specialists as results of Rehabilitation Act and Workforce Innovative Opportunity Act (WIOA) amendments. To address this shortage, this project will develop innovative, datadriven, evidence-based and system support building training modules for inclusion in short-term in-service VR and Pre-ETS training programs by engaging other coordinated VR team members (i.e., family members, in-service educators/special educators, paraeducators/job coaches, and

employers in in-demand fields and STEM)

youth with intellectual and developmental

disabilities (IDD). This proposed project is

critical given a large number of youth with

unique and complex challenges of each

to maximize employment outcomes of

IDD served by VR agencies and the

INNOVATION

Disability will work collaboratively with other stakeholders to carry out this project. This project changes the in-service VR and Pre-ETS training paradigm from a role and function model to an outcome-based model, with an emphasis on strengthening coordinated VR team efforts. The anticipated outcomes of this project include: outcome- and evidence-based inservice VR and Pre-ETS in-service training modules tailored to meet the employment needs of youth with IDD; high quality inservice VR counselors and Pre-ETS specialists to enhance the functions of a coordinated VR team to serve youth with IDD; enhanced retention of in-service VR counselors and Pre-ETS specialists; and a support system strengthening coordinated VR team to systematically support integrated and competitive employment outcomes for youth with IDD. For more information on this project, contact Schiro-Geist at <u>cschrgst@memphis.edu</u>. **Grants Awarded** Czech Academy as Part of the

UofM's Collaboration with Czech Republic Will partner UofM faculty with Czech faculty Three University of Memphis faculty members were recently awarded grants through the Mobility Plus Project program, as part of the UofM's partnership with the Czech Academy of Sciences (CAS). The partnership with CAS was finalized in 2018 with a signing ceremony between CAS President Eva Zazimalova and UofM President Dr. M. David Rudd. Comprised of 54 research institutions, the CAS is responsible for leading research in the Czech Republic across a range of natural, technical, social sciences and humanities The recipients were: **Dr. Chuck Langston**, UofM professor and director of the Center for Earthquake Research and Information (along with Dr. Jin Malek, Institute of Rock Structure and

Mechanics), for the project "Application of

Dr. Joel Bumgardner, UofM professor in

Biomedical Engineering (along with Dr. Lucie Bacakova, Institute of Physiology),

for the project "Novel Chitosan-based Angiogenic Nano-fibrous Scaffolds for Skin

Rotational Seismology for Earthquake

Early Warning and Monitoring."

Tissue Engineering." **Dr. Ebrahim Asadi**, UofM assistant professor in Mechanic Engineering (along with Dr. Danijela Rostohar, Czech Institute) for the project "Hybrid Additive Manufacturing and Laser Shot Peening Process for Quality Improvement of 3D metal printed objects.' For more information on this collaboration, contact the Division of Research and Innovation at <u>research@memphis.edu</u>. **Political** Science

Awarded

Germany

Will focus on

International

Fellowship in

Dr. Kris-Stella Trump, assistant professor in the department of Political Science, has been awarded a senior fellowship at the University of Konstanz (Germany) in their Cluster of Excellence "The Politics of Inequality," within the framework of the Excellence Strategy of the German federal and state governments. The cluster's and state governments. The cluster's researchers investigate inequality in areas such as education, employment and political rights. They study how people perceive these inequalities, how they lead

to collective mobilization and how political

actors respond to them. As a senior fellow,

inequality issues, perceptions and

responses

Trump will become a member of the cluster and will actively participate in its activities during fall 2020. While at the University of Konstanz, Trump will also work on her book project that examines perceptions of deservingness, attitudes toward redistribution and reactions to growing income inequality. For more information on this appointment, contact Trump at ktrump@memphis.edu. UofM MEMPHIS. Gap/Bridge Funding for Research Deadline to apply is Feb. 7

In an effort to accelerate research innovation at the University of Memphis, and in line with the University's goal of

achieving and sustaining R1 status, the

creating a process for soliciting a request

that are denied funding are of high quality and can be strengthened further through

Division of Research and Innovation is

for funding. Sometimes applications to

federal funding agencies or foundations

additional work to meet funding agency

Tenured or tenure-track faculty members

from all disciplines with an externally

reviewed proposal with direct costs of \$100,000 or more may apply. It is

recommended that before applying you

requirements. This program provides support to advance research work that is

encouraged for strengthening and

resubmission.

Who Can Apply?

obtain a critical evaluation of your external referee comments from your colleagues, as positive comments are not necessarily an encouragement to resubmit. Prior funding history and post-award management (including of internal grants) will be considered. **Application Requirements** Please submit the following: Completed <u>cover sheet</u> 2) Panel summary and external reviewers' comments for the original proposal in their entirety; 3) Your responses to the funding agency reviewer's comments with an emphasis on what is required for successful resubmission; 4) A brief project description written for a nonspecialist; 5) An abbreviated budget for gap or bridge 6) PI bio Conservative budgets may improve competitiveness. Do not include any F&A costs. Salaries and equipment are NOT

allowable expenses, unless they are supported by cost share from the

Applications will be reviewed by an interdisciplinary team of researchers from

across the University of Memphis. The

funding history of junior faculty will be given consideration according to their length of employment. Prior funding

history and post-award management will

be considered. The reviewers will base

their recommendation on external

research submissions

emphasis of funding decisions will focus

on the ability of the researcher to generate

external funding, and the amount awarded will be contingent on direct costs. The

June 15.

Review Criteria

department or college. Requests for gap

or bridge funding must be for proposals submitted within the last two years (Jan. 2018). All funds must be expensed by

reviewer comments and your responses to the comments. Deadline for Submission: Feb. 7 Submit completed packet, including cover sheet, to vwhzlett@memphis.edu by Friday, Feb. 7, at 5 p.m. For questions regarding the program, email Cody Behles at <u>cbehles@memphis.edu</u>. PostDoc Acceleration and **Career Escalation (PACE) Program** Creating opportunities for successful

The Division of Research and Innovation

the PostDoc Acceleration and Career

intensive training for postdocs on the

comprehensive lifecycle of research

the review process; bio sketch peer review; compliance overview; narrative

session; cooperative agreements,

contracts and other funding; and post award management. Upon the completion of the workshop series, a PostDoc

event will take place to present your

Research Lightning Talks and Networking

kicked off a new program in January called

Escalation Workshop program. PACE is an

development. These sessions typically last

two hours and topics featured are: finding

funding; proposal building; understanding

writing; statistics technique review; budget and finance overview + cayuse; formatting and citation; faculty perspective in navigating SBIR and STTR; peer review

research to date, your interest areas and to meet potential collaborators. For more information on this program, visit the website, or contact Cody Behles at cbehles@memphis.edu or 901.678.2648. April 17-18 | athenatechne.com TECH LIKE A GIRL

All Women's Hackathon

April 17-18 | FIT Lobby, The Zone,

uniting with tech organizations across Memphis and the Mid-South to bring the

two-day event designed to cultivate a positive environment for women in technology from across the region and encourages women interested in the possibilities of technology to come together, collaborate on projects and

second all-women's hackathon to

The FedEx Institute of Technology is again

Memphis. ATHENAtechne Hackathon is a

compound the opportunities for women in

the technology field. This year's event theme is 'Tech Like a Girl' and is open to

For more information on this event or to

To become a sponsor for this event, view

our sponsorship packet and contact Mary

Ann Dawson at mdawson@memphis.edu

Talk to focus on optimal execution for

register, visit athenatechne.com.

FISC hosting Agostino

Capponi from Columbia

large orders in small markets

women ages 13 and up.

or 901.678.1592.

University

Fishbowl

Feb. 10 | 10-11 AM | FCBE 133 Join the Financial Infrastructure Stability and Cyber-security (FISC) Center in the Fogelman College of Business & Economics as they welcome renowned speaker Dr. Agostino Capponi, associate professor of Industrial Engineering and Operations Research at Columbia University. Capponi, department editor (Finance) at Management Science; author of 37 research publications; president of the INFORMS Finance Section; an external consultant at the CFTC and Office of the Chief Economist; and recipient of 11 research grants and awards totaling \$3 million will speak on his paper Large Orders in Small Markets: On Optimal Execution with Endogenous Liquidity For more information on this talk, contact Dr. P.K. Jain at <u>pjain@memphis.edu</u>. CALENDAR

PACE/Proposal Workshop: Bio sketch Peer

TECH Meetup: DevMemphis | Modern

TECH Meetup: Machine Learning/Data

Feb. 3 | 3-5 PM | FIT 225

Feb. 4 | 6-7:30 PM | FIT 225

TECH Meetup: MemDevOps

PACE/Compliance Overview

Feb. 10 | 3-4 PM | FIT 225

Feb. 12 | 6-8 PM | FIT 225

Feb. 14 | 2-4 PM | FIT 225

Power Platform Bootcamp

<u>DevSecOps 2-Day Training</u>

Feb. 19 | 2-3:30 PM | FIT 225

TECH Meetup: Web Workers Feb. 11 | 6-8 PM | FIT 225

TECH Meetup: Memphis Game

TECH Meetup: MemPASS/Power BI

PACE/Budget and Finance Overview +

Feb. 15 | 9 AM-5 PM | FIT 203/205

TECH Meetup: Memphis Python

Feb. 17 | 6:30-8:30 PM | FIT 225

Feb. 18-19 | 8 AM-5 PM | FIT 203/205

PACE/Proposal Workshop: Formatting &

PACE/Faculty Perspective: Navigating SBIR & STTR

Feb. 21 | 3:30-5:30 PM | FIT 225

<u>Lightning Talks</u> Feb. 13 | 5:30-7:30 PM | FIT 225

Feb. 6 | NOON-2 PM | FIT 225

PACE/Proposal Workshop: Narrative

Feb. 4 | 7-8 PM | FIT 226

Feb. 5 | 2-4 PM | FIT 225

Review

<u>Frameworks</u>

<u>Science/R</u>

Developers

(Fishbowl)

(Fishbowl)

<u>Citation</u>

Research Awards Celebration Feb. 25 | 3:30-5 PM | UC River Room <u>TECH Meetup: MemphisPHP</u> Feb. 25 | 6:30-8 PM | FIT 225 PACE/Proposal Workshop: Peer Review <u>Session</u> Feb. 27 | 3-5 PM | FIT 227 TECH Meetup: Memphis Agile Practitioners Feb. 27 | 6-7:30 PM | FIT 227 TECH Meetup: NetSquared Memphis: <u>Learning Management Systems</u> Feb. 27 | 7-8:30 PM | FIT 227 GiveCamp Memphis / Design for Good **Hackathon**

Power Platform Bootcamp Feb. 15 | 9AM-3 PM | FIT 203/205 This is a free event driven by user groups and communities around the world, backed by Microsoft, for anyone who wants to learn more about Microsoft's Power Platform. In this full-day bootcamp, we will deep-dive into Microsoft's integration stack with hands-on sessions and labs, delivered to you by the experts and community leaders. For more information, contact Claudio Donndelinger at claudio.d@memphis.edu or 901.678.1589.

most. Sign up now to help code and design for charity at GiveCamp Memphis/Design for Good 2020, hosted at the University of Memphis FedEx Institute of Technology. Register here.

Feb. 28-March 1 | 5 PM-All Weekend| FIT 203/205 (Fishbowl) TRAINING **Business Architecture Training** Feb. 11-14 | 8:30 AM-5 PM | FIT 225 With business architecture gaining the attention of businesses across a range of industries, the opportunity to introduce the discipline has never been better. Whether triggered by executive mandate or grassroots initiatives, businesses worldwide are seeking to leverage

business architecture to streamline value

delivery, improve customer experience or

register here. For inquiries on this or any

rslotay@memphis.edu or 901.678.1041.

transform their business in other ways.

Join us at the FedEx Institute of Technology for a deep dive into this

Learn more on this training, or

Feb. 14 | 2 - 4 PM
FedEx Institute of Technology
Methodist Presentation Theatre

other training, contact Rami Lotay

exciting field.

Dev**Sec**Ops Feb. 18-19 | 8 AM - 5 PM FedEx Institute of Technology Fishbowl (203/205) **DevSecOps 2-Day Training**

Feb. 18-19 | 8 AM-5 PM | FIT 203/205

The DevSecOps movement seeks to

resolve competing objectives by creating truly cross-functional teams that are

empowered to do everything involved with

creating and operation software without involving other teams. This is achieved through extensive automation of most

deploying code; provisioning production

To learn how DevOps can be implemented

Design for Good. Code for Charity.

Feb 28 – Mar 1 | All Day Event

GiveCamp Memphis 2020

February 28 - March 1 | All day | FIT

A weekend-long event where coders,

designers and marketing experts come

in need. Since its inception in 2007, the

together to provide solutions for nonprofits

national GiveCamp program has provided

benefits to hundreds of nonprofits, worth millions of dollars of developer and

Give your time, knowledge and creativity to the local nonprofits that need it the

designer time in services.

Design for Good Hackathon

and pre-production environments; and

within your organization, join us for this

manual tasks: building, testing and

even security reviews and scans.

training by registering here.

(Fishbowl)

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Lobby

THE UNIVERSITY OF MEMPHIS

RFID Experimentation on Tiny Hawk MicroDrones

When the weather gets chilly, the members of 901FPV bring their high-speed races indoors. Earlier this month, these drone racers participated in an experiment with **Dr. Kevin Berisso** during the Tiny Hawk Drone Race hosted at the FedEx Institute of Technology. This experiment sought to determine if lightweight RFID tags could be used to detect when the rapidly-moving Tiny Hawk drones passed near a sensor array. If so, a future drone racing event could be held where the audience and other pilots could interact and interfere with the racers, to introduce moving obstacles and surprise events, changing the difficulty of the

Ongoing research at the University of Memphis racetrack in real time.

The experiment's result: It worked! Don't miss out on upcoming events like these. Follow the FedEx Institute of Technology today. **University of Memphis Research + Innovation Magazine Leading Through Innovation** Read Here »

Subscribe to our email list.

Share this email: 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.

View this email online.

This email was sent to .

365 Innovation Drive, Suite 303 Memphis, TN | 38152 US

FedEx. MEMPHIS.

emma