COVID-19: Research & Innovation Updates

F in

We will be virtually hosting: » 5 Questions Series featuring UofM Researchers

DNNECTING **VIRTUA** The move to online learning and interaction brings an opportunity to highlight how the University of Memphis is **#DrivenByDoing**, even though we're now apart from each other. The FedEx Institute of Technology will host virtual events throughout the summer months focusing on how this pandemic is affecting research, applications, innovations and everyday life. Join us. » Tech Meetups and Workshops » Telehealth Webinar Series » COVID-19 Lightning Talks

» Pandemic Punditry - Interview Panels with industry experts and academic researchers For more information or to schedule events, contact fedex@memphis.edu. INNOVATION **RESEARCH**

Harris wins Prestigious ACLS/Mellon Foundation Fellowship "The Citizens of

Cossitt"

Dr. Donal Harris, professor of English and

director of the Marcus Orr Center for the

Humanities, has received a prestigious fellowship from the American Council of Learned Societies and the Mellon Foundation for the "Citizens of Cossitt" project. This project is a collaboration between the University of Memphis (UofM) and the Memphis Public Library (MPL) to research the history and reimagine the future of MPL's first library, Cossitt Library. Guided by librarians at both institutions, the UofM research team will use MPL archives and special collections to create public exhibitions and digital learning tools

about the role of Cossitt Library in the

public outreach surveys conducted by

city's long civil rights history. Then, using

Cossitt staff, and in consultation with the

UofM Benjamin Hooks Institute for Social Change, the project will develop training workshops and exhibition space for library patrons to produce their own physical and digital exhibitions about the library's place in civic life. "Citizens of Cossitt" provides the first systematic history of public libraries in Memphis, Tenn. Memphis is unique among large metropolitan areas, even in the South, because it did not have a true public library until 1955. Until then, it had Cossitt Library, which was founded in 1893 as a private philanthropic institution, beholden to its board of trustees rather than to the city government or citizens. When the city finally established MPL in 1955, it simply took over control of the Cossitt branches and kept "Cossitt" as the name of its downtown branch. This history complicates the ideal of the public library in Memphis. Read more on the fellowship program>

UofM Faculty and **Tennessee** Dept. of **Health Partner** on CDC Study of HIV Community Pichon to lead **Dr. Latrice Pichon**, associate professor of Social and Behavioral Sciences in the School of Public Health, in partnership with Tennessee Department of Health (TDH) Division of HIV/STD/Viral Hepatitis with

funding from the Centers for Disease

formative assessment to lay the

foundation for an HIV behavioral

Control and Prevention, will conduct the

based participatory research approach to

gain a more comprehensive

Read official press release>

surveillance study among men who have sex with men. Recently, the U.S. Department of Health and Human Services announced the goal to end the domestic HIV epidemic within 10 years through the "Ending the HIV Epidemic: A Plan for America" initiative. The Memphis metro area was one of 48 hotspots selected with the highest number of new

priority groups. In partnership with Connect to Protect (C2P) Memphis, local HIV prevention coalition and TDH, Pichon will contribute to the rapid planning process that engages the broader community in aligning expertise, resources, and existing activities to develop an Ending the Epidemic Plan (EtHE) for Memphis. Her work seeks opportunities for improvements to existing social and medical support systems for PLWH, including the role and involvement of the faith community. She conducts qualitative research to better understand current systems of care and inform system-level improvements to support EtHE initiative planning goals. These projects build on her larger body of work, collaborating with community and faithbased partners and healthcare systems to break down systemic barriers to sustainable and equitable care for vulnerable communities in Memphis and beyond. For more information on Pichon's research, visit here>

There is an ever-present national need for improvements in undergraduate statistics education to help equip a large segment of the United States population with a broader and deeper understanding of statistics in order to make informed decisions. Toward this end, the underlying impetus of this proposed project is to take a dynamic approach to: (1) develop, implement and research a novel inverted classroom model for undergraduate general education statistics; (2) use research and formative evaluation feedback to examine continuously its effectiveness on student learning and attitudes; (3) modify and refine the model as needed; and (4) employ summative evaluation and feedback to complete the model for dissemination. This is innovative

from several directions, including: the

section) statistical literacy class that students often select as a general education mathematical sciences

provide formative and summative

research and project activities.

target course is a large (80+ students per

requirement; the research is designed to

feedback for such courses; and there will

underrepresented in STEM related to the

The PI on the project is Dr. Dale Bowman

and, co-Pl is **Dr. Leigh Harrell-Williams**. Other senior personnel include **Drs**.

be a special focus on students traditionally

Kelsey Mankel. PhD student in Communication Sciences & Disorders (Neuroscience concentration), was recently awarded a NIH F31 NRSA fellowship from the National Institute on Deafness and Other Communication Disorders for her project entitled "Neural bases of successful auditory learning." This project focuses on learning to map sounds to meaning and is fundamental to speech and language acquisition. By measuring neuroelectric signals via scalprecorded electroencephalography (EEG) during training tasks, this research will assess where and when in the brain successful category learning occurs. Results will reveal how individual behavioral learning and may inform future brain-based interventions in educational, therapeutic and/or rehabilitative applications. The award provides \$91,040 over two years. As a fourth-year doctoral student working in the Auditory Cognitive Neuroscience Lab of Dr. Gavin Bidelman (faculty sponsor), this grant will fund her remaining doctoral studies at the UofM and provide protected time for dedicated research training. Read more about the Auditory Cognitive

Awardees are: Andrei Znamenski, Field Work & Archival Research Grants, Department of History Fayana Richards, Field Work & Archival Research Grants, Department of Anthropology Shelley Keith, Field Work & Archival Research Grants, Department of Criminology & Criminal **Justice** William Thompson, Field Work & Archival Research Grants, Department of World Languages & Literatures

Fund, Department of History Eric Platt, Professional Indexing Grant Fund, Department of Leadership Vania Barraza, Professional Indexing Grant Fund, Department of World Languages & Literatures William Duffy, Professional Indexing Grant Fund, Department of English

For more information on these awards,

at Teresa.Franklin@memphis.edu.

contact Teresa Franklin

being interested in advertising, it's the time of year that draws the most attention." Super Bowl ads as a platform for generating cold data and applying

hydration status."

Groups."

Services, Electronic Research Administration and Research Development. They are located in 315 Administration Building. Quick Guide available here. NEWS TO FEATURE IN THE **RESEARCH + INNOVATION NEWSLETTER?** ++.

Visit the website for the latest

news and happenings at the

Redefining the University District and strengthening Memphis' economic

We welcome the opportunity to highlight the research infrastructure and innovation capabilities at the University of Memphis. Email major award notifications, conferences to be held at the UofM, honors, publications, research impact

stories, initiatives, etc., for inclusion

in an upcoming issue of the

the University of Memphis.

sharing the world-class

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impact

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

newsletter. We look forward to

accomplishments taking place at

economics, operations management, linguistics, political science and psychology. For more information on the C-NRL lab, visit> **Research Awards April 2020** Dr. Carolyn Kaldon, research associate professor in the School of Health Studies, was awarded \$1,399,780 from Heinemann Publishing for her project "Heinemann BAS and SEL2 Validation Study." **Dr. Dale Bowman**, associate professor in

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

BIOLOGISTICS DATA SCIENCE

Dr. Linda Jarmulowicz, dean of the University of Memphis' School of Communication Sciences and Disorders, recently led efforts to assist local hospitals treating ventilated patients impacted by the coronavirus by providing low-tech Student communication boards. These boards will

Engaged

Learning in an

Nataliya Doroshenko, Alpha Ba, John Haddock, Misty Freeman and Manohar Aggarwal. The team is working with an advisory board from around the United States who are top STEM education researchers. **UofM Doctoral** Student

Awarded NIH

Fellowship

F31

Science Pilot Program Grant Growing research capacity Designed to encourage scholarship and growth of externally funded research in the areas of fine arts, humanities and social sciences, the Division of Research and Innovation recently funded and awarded 16 grants to faculty members in these

Awards

areas.

Department of English Kimberly Patterson, Pre-tenure Subvention Grants, School of Music William Duffy, Pre-tenure Subvention Grants, Department of English Andre Johnson, Professional Indexing Grant Fund, Department of Communication and Film Benjamin Graham, Professional Indexing Grant

During the session, participants, wearing EEG caps, are shown a number of Super Bowl advertisements on a continual stream. The EEG cap contains 64 electrodes measuring signals from the brain and records eye movement toward an object, or, in this case, Super Bowl ads. After the session, research subjects participate in a free recall of brands and the ad content.

"People pay a lot of attention to and pay a

lot of money for Super Bowl ads," Deitz

said. "From a standpoint of laypeople

Sciences, was awarded \$21,331 from Nuun & Company Inc. for his project "Effect of Nuun electrolyte tablets on

project funds. The team includes Pre-Award Services, Contract and Award

View website here.

collaboration with the Center For Disease May 14 | 6:30-8:30 PM | Teleconference Control for her project "Ending the HIV Epidemic in Shelby County, Tennessee: a Strategic and Cooperative Plan." She was

understanding of the challenges faced by people living with HIV (PLWH) and other

Elementary Statistics (SELES) Classroom Mathematics faculty examine statistics education in undergraduate classrooms

differences in neural function contribute to Neuroscience Lab> Fine Arts, Humanities and Social

Peter Brand, Image Reproduction Fund, Department of History Joseph Lariscy, Open Access Book Fees Grant, Department of Sociology Andrew Tawfik, Pre-tenure Subvention Grants, Instruction and Curriculum Leadership Beverly Tsacoyianis, Pre-tenure Subvention Grants, Department of History Don Rodrigues, Pre-tenure Subvention Grants,

C-NRL lab at **UofM** held third annual "Super Bowl Ad Study Week" Spring 2020 As part of the Consumer NeuroInsight Research Lab (C-NRL) at the University of Memphis, the third annual "Super Bowl Ad Study Week" was hosted by Dr. George Deitz.

Deitz hosts the Super Bowl Ad Study Week for a couple of reasons. One is to use neuroscientific tools to gain non-verbalized responses, and the second is to promote what his team is doing in the C-NRL lab. As director of the lab, Deitz oversees all research and training programs associated with the C-NRL lab. Affiliated faculty and doctoral students come from a diverse range of disciplines, including marketing, consumer behavior, advertising, organizational behavior,

also awarded \$18,000 from the Shelby County Government through collaboration with the Center For Disease Control for her project "National HIV Behavioral Surveillance (NHBS) Formative Assessment (MSM Cycle)." Dr. Meredith Aden, assistant dean in the Department of Law Student Affairs, was awarded \$25,000 from the AccessLex Institute for her project "Law Student Emergency Relief Fund." Dr. Richard Bloomer, dean and professor in the Department of Health and Sport

Research Development and Sponsored teams responsible for the review and submission of proposals (grants, contracts, cooperative agreements, nonmonetary) to external sponsors and for the review and acceptance of any sponsored

TO RESEARCH AND SPONSORED PROGRAMS Reviewing, Submitting and **Accepting Funded Research** A resource for faculty and staff Programs are the central research support

the Department of Mathematical Sciences, May 12 | 5-7:30 PM | Teleconference was awarded \$297,822 from the National Science Foundation for her project "A Model for Student Engaged Learning in an Elementary Statistics (SELES) Classroom." Dr. Xing Gao, assistant professor in the Department of Computer Science, was awarded \$174,995 from the National Science Foundation for his project "CRII: SaTC Securing Containers in Multi-Tenant **Environment via Augmenting Linux Control Dr. Latrice Pichon**, associate professor in the Department of Social and Behavioral Sciences, was awarded \$45,700 from the Tennessee Department of Health through

HIV diagnoses. Pichon uses a community-(UTHSC and UofM). Adjunct and visiting faculty can participate but are not eligible to be Pls. All UTHSC campuses are eligible Nashville).

> printed and laminated new communication boards located inside the clinic and delivered them to intensive care units in the Memphis area. The boards feature many types of messages, used by pointing toward pictures or letters to spell out words in English or Spanish. Each set delivered to the hospitals contains approximately 20 different types of boards in variations by image and language. Through this effort, the boards offer quick communication with family and staff, impacting the patient's

> Association of University Technology Managers (AUTM), the global association of technology transfer professionals. The new principles provide global guidance for tech transfer offices, focusing on research intended to develop technologies, treatments and solutions needed during the current pandemic. These recommendations are meant to reduce barriers so researchers and their respective institutions are able to deliver innovations in a timely manner for immediate impact. More than 50 institutions worldwide, as well as the Association of American Universities and the Association of Public and Land-grant Universities, have already signed the guidelines published on April

Learn more about the guidelines >

2020 Faculty Awards

achievement & excellence in

engaged scholarship awards

Distinguished research, creative

Field of School Social Work. Read more about Elswick > Distinguished Research in Science, Engineering & Mathematics Dr. Roberto Triggiani, Distinguished Professor, Department of Mathematical Sciences. Read more about Triggiani > Distinguished Research in the Humanities Dr. Peter Brand, professor, Department of History, is a historian and Egyptologist specializing in the history and culture of ancient Egypt during its imperial age. He is director of the

Karnak Hypostyle Hall Project. Read more about

to: Microbiology/Virology/Parasitology Research; Epidemiology and Public Health; Information Technology; Occupational Health; Telehealth; Social Work; Data Science; Materials Science; GIS; Cyber Security; Logistics; and History. Interested faculty, staff, and students should submit a brief outline of the impact of COVID-19 on their work and/or research, with a focus on how they have adapted to overcome challenges. Applicants selected to be featured will have five business days to submit a five-10 minute video presentation.

fedex@memphis.edu by May 13 at 5:00

Helping the

Together virtual

Helpers

Fighting It

p.m. Talks are scheduled for May 21.

For more information on this event,

Community Engagement Office at Shelby County Schools provide their students the tech they need to keep learning. Douglass High School is the first school to partner with TECH-SHARE 901. Learn more here> **Second Place** Level-Up! Memphis upends the job-seeking experience by showcasing the experience, skills and talents of displaced workers in the restaurant & hospitality industry. **Third Place**

Good Deeds Virtual Marketplace will be opening

soon to serve as a Mid-South focused one-stop

Learn more about the members of each

team, and find links to the final products

when they are published and officially

memphis.edu/fedex/fitfight.php.

CALENDAR

open for business at

shop for connecting donors to charities and

volunteers to the organizations in need.

May 18 | 6:30-8:30 PM | Teleconference TECH Virtual Meetup: Memphis M65 21 | 3-5 PM | Teleconference COVID-19 Lightning Talks May 21 | 4-6 PM | Video Premiere TECH Virtual Meetup: Data Management Professionals with DAMA Mid-South May 21 | 4-6 PM | Teleconference TECH Virtual Meetup: Intro to Syncfusion Essential Studio Memphis Xamarin May 26 | 6-8 PM | Teleconference

TECH Virtual Meetup: MemphisPHP

May 26 | 6:30-8 PM | Teleconference

May 26 | 6:30-8 PM | Teleconference

TECH Virtual Meetup: Memphis Agile

May 28 | 6-7:30 PM | Teleconference

TECH Virtual Meetup: Microsoft Build

2020 Event Recap with Memphis .Net

TRAINING

May 28 | 6-8 PM | Teleconference

ALL TRAINING NOW HELD VIRTUALLY

Lean Portfolio Management

May 11-15 | 8 AM - NOON (CDT)

<u>Practitioners</u>

TECH Virtual Meetup: Code Co-op

Lean Portfolio Management May 11-15 | 8 AM-NOON (CDT) In this course, attendees will gain the practical tools and techniques necessary to implement the Lean Portfolio Management functions of Strategy and Investment Funding, Agile Portfolio Operations and Lean Governance. For more information, contact Rami Lotay at rslotay@memphis.edu. Register here >

June 8-11 | 8 AM-NOON (CDT) | Online A coach's primary goal is to enhance their client's awareness of practice and behavior - enabling and empowering the client to realize objectives, which may be just outside of their reach. Through thoughtful and deliberate engagement, the coach strives to enhance, in a measurable and sustainable fashion, team practices in order to provide focus on the business goals and objectives of the team and

> NSTITUTE OF ECHNOLOGY MEMPHIS.

training, register here >

Read Here »

Research & Innovation

Leading Through Innovation

Contact us:

Publishing Leverages **CREP for Large** Validation Study Awarded \$1.4 **Dr. Carolyn Kaldon**, research associate professor, and co-PI **Dr. Todd Zoblotsky**, research associate professor, will lead a team at the Center for Research in Educational Policy (CREP) to conduct a nationally representative, full-scale validation study of two K-8 literacy assessments developed by Dr. Irene

Fountas and Dr. Gay Su Pinnell for Heinemann Publishing. These literacy assessments are offered in both English and Spanish, and when these types of assessments are being considered for purchase by a school district or school, administrators are looking for validation research to enable them to adopt such materials. This project will involve approximately 36 schools and 1,200

students in grades K-8 across all four

census regions (Northeast, Southeast, West and Midwest). The project team will

on-one student assessments on three

separate occasions across two school

years. They will then conduct both

lead the administration of over 3,600 one-

quantitative and qualitative analyses after

each administration to provide statistical

feedback for assessment modifications,

and after the last administration, provide

conclusive evidence of the reliability and

validity of the assessments. This project is

Heinemann

THE UNIVERSITY OF MEMPHIS.

FedEx

part of an ongoing collaborative research partnership that Kaldon, Zoblotsky and CREP have established with Heinemann over the past decade, and are grateful for the opportunity to continue working with Heinemann on foundational educational research to support students' successful literacy development. For more information on CREP's research, visit webpage> **CORNET Award: University of** Memphis & UTHSC Partnership on SARS-CoV-2/COVID-19 On May 15, the University of Tennessee Health Science Center (UTHSC) Office of Research, in collaboration with the University of Memphis, will be announcing a new CORNET RFA focused on SARS-CoV-2/COVID-19 Research. This RFA will cover the full translational science spectrum of T0 – T4. Up to five CORNETs will be awarded. In conjunction with the release of the RFA will be an

accompanying project questionnaire. All projects will require prior approval from the Office of Research before a proposal may be submitted for consideration. Project questionnaires will be due by 5:00 p.m. on May 22, and approvals will be provided no later than May 30. Projects approved for submission will be due by June 19. **Eligibility** To be considered for a UTHSC/UofM SARS-CoV-2/COVID-19 Research CORNET Award, each research team must include, at a minimum, one faculty member from each participating campus

(Memphis, Knoxville, Chattanooga and How to find a collaborator If you are interested in applying for the CORNET, please email Cody Behles at cbehles@memphis.edu for details on the application process and to obtain the necessary documents and forms. Between now and May 15, collaborators are being identified. If you do not have a preidentified UTHSC collaborator, our office can help you identify one. **CSD Helps Hospitals During** COVID-19 Provides boards to assist with patient communication

assist medical personnel communicating

with patients and patients with their family

Connected to the University's School of

is the Memphis Speech and Hearing

Center, a fully functional clinic that

provides services to patients of all

and Vicki Haddix, the alternative

communication specialist, graduate

students put Jarmulowicz's idea of

providing the boards into action and

Communications Sciences and Disorders

circumstances and ages. With guidance from Marylin Wark, director of the clinic,

members.

level of care.

Encourages fast

commercialization

contact Wark at mdunham@memphis.edu. **UofM** Committed to Reducing **Barriers During Pandemic**

of innovations related to COVID-19

The University of Memphis has endorsed

Guidelines recently released by the

and committed to the COVID-19 Licensing

For more information on this effort,

Each year, the UofM Alumni Association recognizes outstanding faculty by sponsoring awards in teaching, research and creative excellence annually. This year's recipients: Distinguished Research in the Social Sciences, **Business & Law** Dr. Dursun Peksen, professor, Department of Political Science, joined the UofM faculty in 2012. He recently received the Quincy Wright Distinguished Scholar Award by the International

Studies Association-Midwest. Read more about

Excellence in Engaged Scholarship Award

Dr. Susan Elswick, associate professor, School

of Social Work, has more than 15 years of clinical

mental health experience that she brings to her

classroom. She was awarded the 2018 Gary Lee

Shaffer Award for Academic Contributions to the

Peksen >

Brand >

COVID-19 FAQs THE UNIVERSITY OF MEMPHIS **COVID-19 Lightning Talks**

COVID-19 has changed the way we work,

study and take in the world on a day-to-

Technology wants to share and educate

Potential topics include but are not limited

day basis. The FedEx Institute of

others on how your education, work and/or research has been impacted by or

Call for presenters

relates to COVID-19.

Submit your proposal to:

contact Rami Lotay at

rslotay@memphis.edu.

FIGHTING IT TOGETHER

hackathon

expertise to bring opportunities and solutions to the Mid-South communities affected by the COVID-19 crisis. Three new platforms were created to address the challenges faced by displaced workers, overstrained charities and the digital divide. **First Place** TECH-SHARE 901 helps the Family and

Over the span of five days, attendees of the Fighting It Together virtual hackathon donated their time, knowledge, and

TECH Virtual Meetup: Memphis Web **Workers** May 12 | 6-8 PM | Teleconference TECH Virtual Meetup: Memphis Game <u>Developers</u> May 13 | 6-8 PM | Teleconference TECH Virtual Meetup: PowerShell Cmdlets for PowerBI Administration with MemPASS/PowerBi May 14 | 5:30-7 PM | Teleconference

TECH Virtual Meetup: Cloud Crash

TECH Virtual Memphis: Intro to Visual

Studio Code with Memphis Python

Course with GDG Memphis

TECH Virtual Meetup: Code Together

Professional Development Training: Lean

May 11-15 | 9 AM-3PM | Teleconference

TECH Virtual Meetup: AMP Study Jam

May 10 | 1-3 PM | Teleconference

Portfolio Management

with GDG Memphis

<u>Memphis</u>

ALL TRAINING NOW HELD VIRTUALLY Training From the Back of the Room June 2-5 | 8 AM - NOON (CDT)

Training From Back of the

June 2-5 | 8 AM-NOON (CDT) |

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facilitate groups, this course takes your

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level of learners. Training From the Back

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model that goes hand-in-hand with agile

values and principles. During this dynamic

two-day train-the-trainer program, you will

instruction design. Learn how the human

For more information, contact Rami Lotay

ALL TRAINING NOW HELD VIRTUALLY

at rslotay@memphis.edu. To register,

Agile

Coaching

June 8-11 | 8 AM - NOON (CDT)

learn, apply and practice the 4Cs of

brains learns in this virtual training

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Online

program.

click here >

Agile Coaching

organization. This course is designed to teach, practice and reinforce the core coaching competencies of the Agile coach, enabling the coach to succeed at reaching agreed-upon team and organizational outcomes. Join us as the Institute brings together the best minds in agile research

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and development to provide superior

instruction in Agile techniques. To learn more, contact Rami Lotay at rslotay@memphis.edu. To join this

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