2019

ORDA Weekly Update, 2019 03 05

Office of Research Development and Administration

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March 4, 2019

Gmail filters changed recently causing ORDA/Cayuse email alerts to be identified as spam. If you are not receiving alerts, please check your spam folder. We are working with IT to resolve this issue.

Qualitative Researchers Networking Mixer

Thursday, March 14 2019, 4–6 p.m. at the Tower Inn, 701 West Cross Street, Ypsilanti

ORDA is hosting a networking happy-hour mixer for anyone interested in meeting other faculty involved in qualitative research. RSVP through by March 12.

Workshops

Multiple Regression Using SPSS

Wednesday, March 6, 1–2 p.m., G11 Halle Library

Multiple regression is a popular statistical method that predicts the value of a variable based on the value of two or more other variables. This will be a hands-on introduction

on how to carry out multiple regression and interpret the output using SPSS.

Multiple Regression Using R

Thursday, March 7, 1–2:30 p.m., 200 Boone Hall

R is a popular, free computing/graphing tool for data analysis. In this workshop, participants will import and explore a practice data set, build and evaluate a regression model, and use the final model to predict responses. Bring your own laptop.

Faculty Scholarly and Creative Activity Showcase

Thursday, March 21, 4:30–6:30 p.m., Student Center Ballroom

The faculty research showcase and strolling reception will celebrate faculty and their recently disseminated research, scholarly, and creative activities. Tenured and tenure-track faculty will display posters, books, artwork, videos or compact discs (CD) of performing art, etc., that highlight scholarly/creative activities that were disseminated during the 2018 calendar year. Heavy appetizers will be served.

Michigan Health Endowment Fund, Behavioral Health

Behavioral health is crucial to physical health and overall wellness, yet tremendous barriers to treatment remain. Challenges like a lack of providers, insurance restrictions, stigma, and uncoordinated delivery of services mean that too many suffer without appropriate care. To effectively treat individuals with complex healthcare needs we must break down silos and integrate behavioral healthcare with primary care and other community-based supports. The Health Fund's Behavioral Health program supports innovative and patient-centered integration models, projects that increase capacity of an existing workforce, and other evidence-based behavioral health programs. Our grantees in this area are creating lifelines and transforming the healthcare landscape to propel Michigan as a leader in behavioral health.

Next Deadline: Concept papers due March 18, 2019; Applications due April 23, 2019

National Science Foundation, Harnessing the Data Revolution: Transdisciplinary Research in Principles of Data Science Phase I

Harnessing the Data Revolution: Transdisciplinary Research In Principles Of Data Science (HDR TRIPODS) aims to bring together the electrical engineering, mathematics, statistics, and theoretical computer science communities to develop the theoretical foundations of data science through integrated research and training activities. Phase I, described in this solicitation, will support the development of small collaborative Institutes. Phase II (to be described in an anticipated future solicitation, subject to availability of funds) will support a smaller number of larger Institutes, selected from the Phase I Institutes via a second competitive proposal process. All HDR TRIPODS Institutes must involve significant and integral participation by researchers representing at least

three of the four aforementioned communities. Please note that the ordering of the four communities is alphabetical and is not meant to emphasize any one discipline over another.

Next Deadline: Required Letter of Intent due March 25, 2019; Proposals due April 24, 2019

National Science Foundation, Growing Convergence Research

Growing Convergence Research (GCR) at the National Science Foundation was identified as one of 10 Big Ideas. Convergence research is a means for solving vexing research problems, in particular, complex problems focusing on societal needs. It entails integrating knowledge, methods, and expertise from different disciplines and forming novel frameworks to catalyze scientific discovery and innovation.

GCR identifies Convergence Research as having two primary characteristics:

- Research driven by a specific and compelling problem. Convergence Research is generally inspired by the need to address a specific challenge or opportunity, whether it arises from deep scientific questions or pressing societal needs.
- Deep integration across disciplines. As experts from different disciplines pursue common research challenges, their knowledge, theories, methods, data, research communities and languages become increasingly intermingled or integrated. New frameworks, paradigms or even disciplines can form sustained interactions across multiple communities.

A distinct characteristic of convergence research, in contrast to other forms of multidisciplinary research, is that from the inception, the convergence paradigm intentionally brings together intellectually diverse researchers and stakeholders to frame the research questions, develop effective ways of communicating across disciplines and sectors, adopt common frameworks for their solution, and, when appropriate, develop a new scientific vocabulary. Research teams practicing convergence aim at developing sustainable relationships that may not only create solutions to the problem that engendered the collaboration, but also develop novel ways of framing related research questions and open new research vistas.

Next Deadline: May 8, 2019

National Science Foundation, Production Engineering Education and Research

The National Science Foundation (NSF) and The Boeing Company are supporting a new initiative, managed and administered by NSF through its EHR Core Research (ECR) program, to accelerate training in critical skill areas for the Nation's engineering and advanced manufacturing workforce. The EHR Core Research: Production Engineering Education and Research (ECR: PEER) initiative supports foundational research arising from the design, development, and deployment of creative online curricula that provide

learners at various levels with skills in five focal areas: model-based systems engineering, software engineering, mechatronics, data science, and artificial intelligence. ECR: PEER invites proposals to design, develop, deploy, and study the effectiveness of online courses in any one of these focal areas using the theories and tools of the learning sciences. Proposals for these ECR: PEER Course, Curriculum, and Evaluation projects may request a maximum of $2,000,000 support for a duration of up to three years. Additionally, ECR: PEER welcomes proposals to convene experts in the academic, for-profit, and non-profit sectors to imagine the future of production engineering education for one of the five focal areas. Proposals for these ECR: PEER Workforce Development Workshops may request a maximum of $100,000 support for a duration of up to one year.

Next Deadline: May 15, 2019

Statistical Consultation

ORDA welcomes back Dr. Grigoris Argeros (Sociology Anthropology Criminology) and Dr. Kathy Chu (Mathematics) as faculty associates for research statistics. Consultation is available for faculty, as well as graduate students working with faculty on independent research projects and theses with the goal of publication of results.

Contact Us

Contact orda_stats@emich.edu for more information or to schedule an appointment.