

2018

ORDA Weekly Update, 2018 02 19

Office of Research Development and Administration

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ORDA Weekly Update

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Updated February 19, 2018

Workshops

Introduction to R, Part 2

R is a very popular computing and graphing tool for exploring data. It allows users to document their thoughts of the data analysis and make it easier to reproduce or update the analysis. R is free and can be downloaded on any operating system. This workshop will give a hands-on introduction to R. We'll work through a few examples that demonstrate the use of R for various types of data manipulation, graphical presentation and basic statistical analysis. Handouts will be provided. **Please bring your laptop.**

Wednesday March 7 OR Thursday March 8 (1–2:30 p.m.), 200 Boone Hall

Logistic Regression Using SPSS

Logistic regression is used when the dependent variable is dichotomous. As a result, the interpretation of the results differs from those of multiple regression. This workshop will give a hands-on introduction on how to carry-out logistic regression using SPSS, as well as interpreting the results.

Tuesday, March 13 OR Wednesday March 14 (2–3:30 p.m.), G07B Halle Library

Deadlines

National Science Foundation, Dear Colleague Letter: Belmont Forum Joint Initiative with BiodivERsA

The Directorate for Geosciences is participating with the Belmont Forum¹ on a new call for proposals, "Scenarios of Biodiversity and Ecosystem Services II," in partnership with BiodivERsA². This call invites proposals that explicitly address a biodiversity scenario, considering the following definition: "Scenarios of biodiversity and ecosystem services are the outputs of the combination of scenarios of indirect drivers and direct drivers — such as land

use change, invasive alien species, overexploitation, or pollution — and models of impacts of these drivers on biodiversity and ecosystem services."

The Belmont Forum will support, on a competitive basis, collaborative projects co-designed by teams of researchers from at least three participating countries. These interdisciplinary teams will bring together natural scientists, social/economic scientists and research users, such as policy makers, regulators, non-governmental organizations (NGOs) and industry. Proposals will be jointly reviewed by a panel of experts and the participating funding organizations. Successful projects are expected to demonstrate added value through multilateral collaboration. Support for U.S.-based researchers will be provided through awards made by the National Science Foundation.

<http://www.biodiversa.org/1239>

Next Deadline: March 9, 2018

IBM Center for the Business of Government, Research Report Proposals

With this Research Announcement, the Center is pleased to solicit proposals that result in reports with insightful findings and actionable recommendations for government leaders and public managers in the following areas of interest:

- INSIGHT – Using data, evidence and analytics to create insight that influences decision making, actions and results
- AGILITY – Adopting new ways for government to operate, using agile principles and putting user experiences and program results at the forefront
- EFFECTIVENESS – Applying enterprise approaches to achieve better outcomes, operational efficiency and a leaner government
- RISK – Mitigating risk, managing cybersecurity and building resiliency to meet the mission of government
- PEOPLE – Cultivating people; reforming processes for hiring, development, and retention; and leveraging data and technologies to build the workforce of the future
- ENGAGEMENT – Fostering a citizen-driven government through real-time interactive feedback, data visualization and other tools to engage, co-create and co-produce services and programs
- DIGITAL – Optimizing new technology and infrastructure models, focusing on the user experience and incentivizing innovators to modernize how government does business

<http://www.businessofgovernment.org/content/research-stipends>

Next Deadline: April 2, 2018

National Institutes of Health, Dementia Care and Caregiver Support Interventions (R01-Clinical Trial Required)

The overarching purpose of this FOA is to help to lay the groundwork for pragmatic trials and real-world implementation of Alzheimer's disease (AD) and AD-related dementias (ADRD)

care and caregiving interventions by supporting early-Stage (Stage I, II, III of the NIH Stage Model) behavioral intervention development clinical trials aimed at adapting/modifying interventions for the real world, examining the principles underlying these interventions, developing methods to ensure real-world fidelity of delivery, and developing training procedures for the people in the community who will be delivering the interventions.

<https://grants.nih.gov/grants/guide/rfa-files/RFA-AG-18-030.html>

Next Deadline: April 10, 2018

Substance Abuse and Mental Health Services Administration, Substance Abuse Treatment for Children and Adolescents

Notice seeking applications to enhance and expand comprehensive treatment, early intervention, and recovery support services for adolescents (ages 12-18), transitional aged youth (ages 16-25), and their families/primary caregivers with substance use disorders and/or co-occurring substance use and mental disorders.

<https://www.samhsa.gov/grants/grant-announcements/ti-18-010>

Next Deadline: April 10, 2018

National Endowment for the Humanities, Fellowships

Fellowships support individuals pursuing advanced research that is of value to humanities scholars, general audiences, or both. Recipients usually produce articles, monographs, books, digital materials, archaeological site reports, translations, editions, or other scholarly resources in the humanities.

<https://www.neh.gov/grants/research/fellowships>

Next Deadline: April 11, 2018

National Endowment for the Humanities, Preservation and Access Education and Training Grants

Supports education and training programs at the national or regional (multi-state) level focusing on the care, management, and creation of intellectual access to library, archival, and material culture collections. Grants are also made to support regional preservation field services that provide surveys, consultations, workshops, reference services, and informational materials to the staff of institutions responsible for the care of humanities collections.

<https://www.neh.gov/grants/preservation/preservation-and-access-education-and-training>

Next Deadline: May 1, 2018

William T Grant Foundation, Research Grants

Funds research that builds stronger theory and empirical evidence in two areas: programs, policies, and practices that reduce inequality in youth outcomes and strategies to improve the use of research evidence in ways that benefit youth. We intend for the research we support to inform change. While we do not expect that any one study will create that change, the research should contribute to a body of useful knowledge to improve the lives of young people.

<http://wtgrantfoundation.org/grants/research-grants>

Next Deadline: Required Letters of Inquiry, May 2, 2018

National Science Foundation, Cyber-Physical Systems

Cyber-physical systems (CPS) are engineered systems that are built from, and depend upon, the seamless integration of computation and physical components. CPS technologies are transforming the way people interact with engineered systems, just as the Internet has transformed the way people interact with information. New, smart CPS drive innovation and competition in a range of application domains including agriculture, aeronautics, building design, civil infrastructure, energy, environmental quality, healthcare and personalized medicine, manufacturing, and transportation. Moreover, the integration of artificial intelligence with CPS creates new research opportunities with major societal implications. The CPS program aims to develop the core research needed to engineer these complex CPS, some of which may also require dependable, high-confidence, or provable behaviors. Core research areas of the program include control, data analytics, autonomy, design, information management, internet of things (IoT), mixed initiatives including human-in- or on-the-loop, networking, privacy, real-time systems, safety, security, and verification. By abstracting from the particulars of specific systems and application domains, the CPS program seeks to reveal cross-cutting, fundamental scientific and engineering principles that underpin the integration of cyber and physical elements across all application domains. The program additionally supports the development of methods, tools, and hardware and software components based upon these cross-cutting principles, along with validation of the principles via prototypes and testbeds. This program also fosters a research community that is committed to advancing education and outreach in CPS and accelerating the transition of CPS research into the real world.

https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503286

Next Deadline: May 9, 2018

Russell Sage Foundation, Race, Ethnicity and Immigration, and Behavioral Economics Programs

The foundation is devoted exclusively to strengthening the methods, data, and theoretical core of the social sciences as a means of improving social policies and currently sponsors a number of core programs, working groups, and special initiatives. We are especially interested in novel uses of existing data to answer emerging or long-standing questions of interest in the Foundation's program areas, as well as analyses of new or under-utilized data. Proposals to

conduct laboratory or field experiments, in-depth qualitative interviews, and ethnographies are also encouraged. Smaller projects might consist of exploratory fieldwork, a pilot study, or the analysis of existing data.

<http://www.russellsage.org/research/categories/requests-proposals>

Next Deadline: Required Letters of Inquiry, May 24, 2018

Statistical Consultation

ORDA welcomes back Dr. Grigoris Argeros (Sociology Anthropology Criminology) and Dr. Kathy Chu (Mathematics) as Faculty Associates for research statistics and Matthew Dick, Graduate Assistant 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 Orda_stats@emich.edu for more information or to schedule an appointment.

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