

Please join us for a Distinguished Lecture by
Dr. Russell Poldrack



March 29, 2017
2pm – 3:30pm
Room 110



Improving the Reproducibility of Computational Research

Abstract:

As the data collection ability of nearly every area of science has ballooned, so has the potential for problematic research practices that can lead to irreproducible results. I will discuss a set of approaches that we are developing to address this reproducibility crisis in the context of human neuroimaging research. These include an integrated platform for the analysis and open sharing of neuroimaging data, frameworks for the description of data and metadata, and the use of software containers and virtual machines to enhance computational reproducibility. I will show how these approaches have the potential to enable a new era of reproducibility in science.

Bio:

Russell A. Poldrack is the Albert Ray Lang Professor in the Department of Psychology at Stanford University, and Director of the Stanford Center for Reproducible Neuroscience. His research uses neuroimaging to understand the brain systems underlying decision making and executive function. His lab is also engaged in the development of neuroinformatics tools to help improve the reproducibility and transparency of neuroscience, including the OpenfMRI.org and Neurovault.org data sharing projects and the Cognitive Atlas ontology.