



will present a research seminar on

## The future of fMRI in Cognitive Neuroscience

### Russell A. Poldrack, PhD

Albert Ray Lang Professor of Psychology  
Stanford University

Director  
The Stanford Center for Reproducible Neuroscience



**Venue** : Rm. 619, Sino Building, Chung Chi College, CUHK

**Time** : 2:30 p.m. – 3:45 p.m., 2 November 2016 (Wednesday)

Cognitive neuroscience has witnessed two decades of rapid growth, thanks in large part to the continued development of fMRI methods. In my talk, I will question what this work has told us about brain function, and will propose some new directions that I see as being crucial to the ultimate success of cognitive neuroscience. First, I will discuss the need for approaches that allow selective associations between mental operations and representations and brain activity. Related to this, I will discuss the need to develop a formal ontology of psychological functions. Finally, I will discuss the need to make research practices in neuroimaging more reproducible.

### *About the speaker*

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](http://OpenfMRI.org) and [Neurovault.org](http://Neurovault.org) data sharing projects and the Cognitive Atlas ontology.

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❖ All are welcome ❖