



UNIVERSITY OF  
**South Carolina**

Institute for Mind and Brain Colloquium Series  
Invited Speaker

**Dr. Robert Mason**



**Senior Research Associate  
Center for Cognitive Brain Imaging  
Department of Psychology  
Carnegie Mellon University**

**“The new cognitive educational neuroscience: a  
neurosemantic approach to the science of learning”**

*Short Abstract:* The remarkable ability to determine the neural signature of a concept by applying machine learning to fMRI data opens several new doors in educational neuroscience. I will present our recent advances in the knowledge of brain changes that occur during the learning of new concepts and new procedural knowledge. Our investigations have indicated several principles of neurorepresentational change in cognitive learning. A neural characterization of physics concepts in both students and faculty will be presented. The proposal is that neural indices of learning may provide a pathway to the assessment of learning.

**November 16, 2021 @ 3:30pm – 4:45pm**

**Institute for Mind and Brain Sponsored Zoom Meeting:**

<https://us02web.zoom.us/j/88044128414?pwd=QIFyN1lqbWNibXBRNEVSeVREZE5UZz09>

Meeting ID: 880 4412 8414

Passcode: 262168 One tap mobile +13126266799