BSCS:
Brain Imaging and Cognition
Sept 30 – Oct 4

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Course Objectives:

An overview of a history of approaches to explore brain-behavior relationships

From neurons to networks: The value of functional magnetic resonance imaging (fMRI)
Course Objectives:

The basic physics of fMRI: Why does fMRI work?

What does fMRI reflect?: Vascular and electrophysiological correlates of the signal
Course Objectives:

Overview of principles of experimental design for fMRI: How to design fMRI studies

What to get out of fMRI signals: How to analyze fMRI data
Course Objectives:

Modeling the brain from fMRI signals:
   Approaches to investigate brain
   “connectivity”

Applications of analytic and modeling
approaches to psychological and
physiological domains