

Brain Mapping Center SEMINAR SERIES

Sponsored by the UCLA Brain Mapping Center Faculty

The focus of these talks is on advancing the use of brain mapping methods in neuroscience with an emphasis on contemporary issues of neuroplasticity, neurodevelopment, and biomarker development in neuropsychiatric disease.

Hosted By: Shantanu Joshi, PhD, Neurology, UCLA

Neuroimaging-guided approaches for invasive and non-invasive neuromodulation of human episodic memory



Nanthia Suthana, PhD

Assistant Professor
Psychiatry & Biobehavioral Sciences, Neurosurgery, and Psychology
David Geffen School of Medicine at UCLA

Electrical stimulation has been successful in treating certain neurologic and psychiatric disorders with recent increased interest in its potential application for alleviating memory disorders. However, findings across stimulation studies of memory in humans have been inconclusive possibly due to difficulties in targeting relevant neural circuits within single subjects. High-resolution structural and functional magnetic resonance imaging methods provide an opportunity to individually tailor targeted treatment to memory related networks. I will present results from both invasive (i.e., deep brain stimulation) and non-invasive (i.e., transcranial magnetic stimulation) stimulation studies of hippocampal-related networks with the goal of improving episodic memory. Findings from these studies suggest that stimulation of afferent input to the hippocampus may be therapeutically effective for the modulation of memory encoding in humans.

December 7, 2017 11:00am - 12:00pm

**Ahmanson-Lovelace Brain Mapping Center Conference Room (221)
660 Charles E. Young Drive South**

***Please note a change in this seminar's venue and date**

For more information contact: Mary Susselman (310-206-4291, mwalker@mednet.ucla.edu)