

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: Nader Pouratian, MD, PhD

Connectomic Deep Brain Stimulation



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Deep brain stimulation (DBS) has been a successful clinical therapy, primarily used to treat movement disorders, for over 30 years. In attempts to expand the clinical indications for DBS, as well as improve outcomes from the therapy, a major focus of present day DBS research is in the development of patient-specific MRI-based surgical targeting strategies for electrode placement. This work is leveraging advances in both anatomical and diffusion-weighted imaging to provide patient-specific connectomic maps of the brain networks being modulated by DBS, which are helping to elucidate optimal stimulation strategies for different disorders. This talk will highlight how these new computational imaging tools are being created and used to improve the clinical application of DBS for a wide range of indications, including depression and Parkinson's disease.

April 5, 2018 11:00am - 12:00pm

**Neuroscience Research Building (NRB 132)
635 Charles E. Young Dr. South**