

# 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

## **Computational neurostimulation: engineering better brain stimulation therapies**



### **Zhi-De Deng, PhD, MHS(c)**

Research Fellow, Noninvasive Neuromodulation Unit  
National Institute of Mental Health, NIH

Noninvasive electromagnetic brain stimulation techniques are applied routinely to study brain function, as well to treat a growing number of neurological and psychiatric disorders. Biophysical models have made substantial contributions to understanding the spatial and temporal dosing of neuromodulation interventions. These computational models can also guide the development of novel neurostimulation devices. In this presentation, we will discuss advances in computational modeling in brain stimulation, with applications spanning low field magnetic stimulation to next generation seizure therapy.

**October 4, 2018 11:00am - 12:00pm**

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

For more information contact: Mary Susselman (13102064291, [mwalker@mednet.ucla.edu](mailto:mwalker@mednet.ucla.edu))