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

"Mapping the Human Brain's Deep and Superficial White Matter: Big Data and "Small" Data"

Lauren J O'Donnell, PhD

Associate Professor of Radiology, Harvard Medical School

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The study of the human brain's white matter connections is entering a new era of big data, which provides novel opportunities for the deployment of robust algorithms to study the white matter in health and disease. Another opportunity exists in the study of superficial white matter, the small fiber pathways near the cortex that have not yet been comprehensively mapped in the human brain. I will present recent results from two ongoing projects related to deep and superficial white matter. The first project focuses on mapping the deep white matter fiber tracts in very large harmonized diffusion MRI datasets, with the future public release of extracted data from approximately 10k subjects. The second project focuses on mapping the human brain's superficial white matter connections and investigates what is possible with high and higher resolution datasets.

December 2, 2021 11:00am - 12:00pmPST

https://uclahs.zoom.us/meeting/register/tJwpcuGtrz8oH9UWb7Jqb-TSnO7Pt7Rn0F8P

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