Brain Mapping Center

SEMINAR SERIES

Sponsored by the Brain Mapping Medical Research Organization and Brain Mapping Support Foundation

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, Ph.D., Neurology, UCLA

"Population Neuroimaging for Depression Subtyping and Classification: What Works, What Doesn't, and What's Next?"



Janine Bijsterbosch, Ph.D.

Associate Professor of Radiology
Washington University in St Louis

Research into the neural mechanisms of psychopathology is traditionally performed in dedicated patient-control study samples with robust clinical diagnostics. The recent availability of large-scale population neuroimaging data offers a new lens on the brain basis of mental health. In this talk, I will discuss what population data can and cannot tell us about depression, drawing on several recent large-scale studies from our lab. I will cover advantages of population data, including improved power, reliability, and transdiagnostic classification. I will also discuss key challenges raised by population data, including considerations for data harmonization, lack of convergence across subtyping approaches, and broader challenges in modeling depression heterogeneity. I will end with a discussion on next steps we're pursuing, including teasers on individualized resting state network topography and the development of dedicated statistical approaches for population data.

May 7, 2026 11:00 am - 12:00 pm PDT

In-person: Gordon Neuroscience Research Building (NRB 132)
635 Charles E. Young Dr. South
Zoom: https://ucla.in/4sYtb7O

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