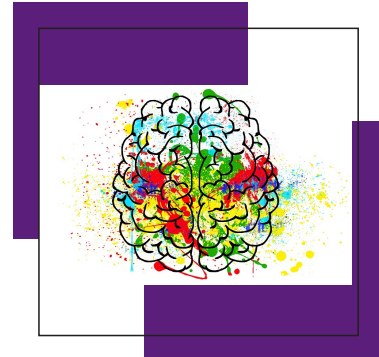


Computational Psychiatry

February 18 - 21, 2020



Scientific Overview

Psychiatric disorders are typically diagnosed and evaluated using subjective psychological exams that assess symptoms, thoughts, feelings and behavioral patterns. Ongoing and recent advances in measurements provide EEG, functional MRI, optogenetic, genomic, and metabolic Fedata. Along with mathematical methods developed to analyze these data, a more physiological and quantitative approach for diagnosis and treatment can be envisioned. This workshop will explore how modern computational tools and mathematical modeling can be integrated with measurements to improve psychiatric diagnosis and treatment.

This workshop will include a poster session; a request for posters will be sent to registered participants in advance of the workshop.

Participation

Additional information about this workshop including links to register and to apply for funding, can be found on the webpage listed below. Encouraging the careers of women and minority mathematicians and scientists is an important component of IPAM's mission, and we welcome their applications.

Organizers

Tom Chou (UCLA), Marti Jett (Army Future Command, Medical Research, Fort Detrick), John Murray (Yale), Virginia Pasour (U.S. Army Research Office), and Shashaank Vattikuti (NIH).

Speakers

Justin Baker (McLean), Deanna Barch (Washington Univ. in St Louis), Michael Bonsall (Univ. of Oxford), Michael Breakspear (QIMR Berghofer), Emery Brown (MIT), Danilo Bzdoc (RWTH Aachen), Carson Chow (NIH), Daniel Durstewitz (IZN, Univ. Heidelberg), Michele Ferrante (NIH), Daniel Forger (Univ. of Michigan), Marti Jett (Army Future Command, Medical Research, Fort Detrick), Nancy Kopell (Boston), Read Montague (Virginia Tech Carilion), John Murray (Yale), Samuel Neymotin (NKI), Yael Niv (Princeton), Johnny Ottesen (Roskilde Univ. Center), Martin Paulus (UCSD), David Redish (Univ. of Minnesota), and Shashaank Vattikuti (NIH).

