



Closing the Gap Between Research and Clinical Application: Neuroimaging Indicators of Brain Structure and Function

12 February 2021 · 8 AM to 2 PM Eastern time (US & Canada)

A symposium highlighting advances in neuroimaging technologies and methods for applying machine learning approaches to increasingly large-scale data sets that have the potential to transform healthcare by providing non-invasive, reliable indicators of brain health, resilience and vulnerability long before clinical manifestations of disease.

[Click here to Register](#)

- 8:00 – 8:25 AM Social Session
- 8:30 – 9:15 AM **Welcome**
Randy Gollub MD, PhD (MGH)
Keynote: Quantitative Imaging Markers of Brain Health
Simon Eickhoff MD, PhD (Heinrich-Heine-Universität Düsseldorf)
- 9:30 – 11:00 AM Choose Track 1 or Track 2, each with presentations, panel discussion & live Q & A

Track 1:
Opportunities & Obstacles In Precision Multimodal MRI
Moderator: Lauren O'Donnell PhD (Brigham and Women's Hospital)

Joint Frequency and Image Space Learning for High Quality MRI Reconstruction
Nalini Singh (MIT)

Deep Learning Methods for Retrospective Harmonization of Structural MRI
Eugenio Iglesias PhD (MGH)

Towards Greater Precision in MRI Based Brain Age Estimation
Yangming Ou PhD (Boston Children's Hospital)

Retrospective Harmonization of Multi-Site Diffusion MRI Data
Suheyla Karayumak PhD (Brigham and Women's Hospital)

11:15 – 11:45 AM **State of the Field**
Randy Gollub M.D., Ph.D. (MGH)

1:00 – 2:00 PM **Mentoring Session** (option available for students, post-docs and fellows)

Track 2:
Frontiers of Clinical Functional Brain Imaging
Moderator: Jordan Harrod (MIT)

Predicting Brain Age from Sleep EEG: Opportunities for Tracking Brain Health
Haoqi Sun PhD (MGH)

Imaging Based Prediction, Early Detection, and Novel Behavioral Interventions for Psychiatric Disorders
Susan Whitfield-Gabrieli PhD (Northeastern University)

Interactive Visualization of Complex Brain Imaging Data Elements to Gain Patient Level Insights
Loraine Franke (UMass, Boston)

Using Lesion (symptom) – Connectome Matching to Optimize Brain Stimulation Treatments for Neuropsychiatric Disorders
Shan Siddiqi MD (Brigham and Women's Hospital)

The event is free of charge, sponsored by:

