

Prof. Stephanie Jones (Brown University, USA)

Stephanie R. Jones, PhD is Associate Professor in Department of Neuroscience at Brown University. She received her doctorate in mathematics from Boston University, followed by training in neuroscience and human magneto- and electro-encephalography (MEG/EEG) at Massachusetts General Hospital. Her research program integrates these disciplines to develop biophysically principled computational neural models that bridge the critical gap between human MEG/EEG brain imaging signals and their underlying cellular and network level generators. She collaborates extensively with animal neurophysiologists, cognitive neuroscientists, and clinicians to develop data constrained models that are translationally relevant. Her group has recently developed their unique neural modeling into a user-friendly software tool for researchers and clinicians to interpret the circuit origin of their human MEG/EEG data: Human Neocortical Neurosolver. Most recently, Dr. Jones's group has expanded their interdisciplinary program to the field of non-invasive brain stimulation. A primary goal is to translate an understanding of the network mechanism underlying non-invasively measured brain signals into brain stimulation strategies to improve disrupt brain function.