

SEMINAR

Title:

Network Neuroscience of Autism

When:

22 April 2021 at 17:00 CET

Where:

Online (Microsoft Teams)

<https://teams.microsoft.com/l/meetup-join/19%3a0b724a844f004f47bbf9e6bfc4ccc1b8%40thread.tacv2/1618232938529?context=%7b%22Tid%22%3a%2241f8b7d0-9a21-415c-9c69-a67984f3d0de%22%2c%22Oid%22%3a%22aebf9932-2c06-4b91-862f-ae81e43ca747%22%7d>

Speaker:

Lucina Q. Uddin, Department of Psychology, University of Miami

Abstract:

Simple “under-connectivity” theories of autism have given way to more nuanced characterizations of the neural basis of disorder. Recent advances in network neuroscience have paved the way for these discoveries, introducing tools and conceptual frameworks that permit exploration of dynamic aspects of brain function. I will review our recent functional neuroimaging studies investigating brain connectivity in autism through a developmental lens. I will illustrate how analysis of brain dynamics can contribute to understanding flexible behaviors in autism, and discuss some of our recent work parsing heterogeneity in neurodevelopmental disorders.

Bio:

After receiving a Ph.D. in cognitive neuroscience from the psychology department at UCLA in 2006, Dr. Uddin completed a postdoctoral fellowship at the Child Study Center at NYU. For several years she worked as a faculty member in Psychiatry & Behavioral Science at the Stanford School of Medicine. She joined the psychology department at the University of Miami in 2014. Within a cognitive neuroscience framework, Dr. Uddin’s research combines analyses of resting-state fMRI and diffusion weighted imaging data to examine the organization of large-scale brain networks supporting executive functions. Her current projects focus on understanding dynamic network interactions underlying cognitive inflexibility in neurodevelopmental disorders such as autism. Dr. Uddin’s work (over 140 publications) has been published in the Journal of Neuroscience, Cerebral Cortex, JAMA Psychiatry, Biological Psychiatry, PNAS, and Nature Reviews Neuroscience. She was awarded the Young Investigator award by the Organization for Human Brain Mapping (2017).

