

Translational AI Center (TrAC) Seminar Spring 2025

Catie Chang

April 22nd at 1:00 PM (US Central Time)

Location and zoom link: <https://trac-ai.iastate.edu/event/trac-seminar-series-catie-chang/>

Computational analysis of multimodal brain and physiological dynamics

Abstract

Advances in neuroimaging and machine learning are providing exciting opportunities for investigating human brain function in health and disease. Here, we will discuss several directions focused on integrating dynamic measurements of brain activity (functional MRI, EEG) and physiological sensor data. We will discuss how these multimodal temporal signals can enrich the measurement and analysis of behavioral states, such as alertness, and inform the development of clinical biomarkers.

Short Bio

Dr. Catie Chang is the Sally and Dave Hopkins Faculty Fellow and Assistant Professor of Electrical and Computer Engineering and Computer Science at Vanderbilt University. Her research group, the Neuroimaging and Brain Dynamics Lab, investigates computational techniques for studying human brain activity. Prior to joining Vanderbilt University, she was a Research Fellow at the NIH and received her Ph.D. in Electrical Engineering from Stanford University.

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