

Uncovering complexity with long-term naturalistic recordings

Organizers:

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This symposium topic is one of the first of its kind. Although long-term clinical recordings have existed for many years, it is only very recently that analytic tools and computational resources have matured to enable meaningful analysis of these datasets. Researchers are now asking a variety of questions critically enabled by these long-term recordings, including analysis of naturalistic movement and speech. The number of labs focusing on long-term naturalistic recordings is growing, and we hope the symposium will foster collaboration and catalyze exchange of knowledge between researchers.

Symposia Schedule:

8:00-8:15

Accelerating long-term, naturalistic ECoG understanding using automated video and audio annotations

Xin Ru (Nancy) Wang, BS, MS, University of Washington, Seattle, WA, United States

8:15-8:30

Context specific ECoG correlates of naturalistic motor behavior

Vikash Gilja, Ph.D., University of California, San Diego, La Jolla, United States

8:30-8:45

Modeling continuous ECoG responses to naturalistic speech using recurrent neural networks

Julia Berezutskaya, B.S., University Medical Center Utrecht, Utrecht, Netherlands

8:45-9:00

Out-of-the-lab neuroscience: Intracranial EEG as a window of brain function during non-experimental, real-life conditions

Tonio Ball, MD, BrainLinks-BrainTools, University of Freiburg, Freiburg, Germany

9:00-9:15

Questions and Answers