

2023 - 2024

UCLA SYNCNS SERIES

Seminars by Young Neuroscience Community Scholars

SYNCNS seminars highlight *both* the cutting-edge scientific work and outreach efforts of external postdocs to foster a more collaborative and inclusive neuroscience community. SYNCNS are selected by UCLA postdocs and funded by the BRI.

Friday April 19, 2024 at 3:30 PM
Gonda Room 1357



Dr. Thomas Elston

Helen Wills Neuroscience Institute, University of
California Berkeley

DECODING DECISION MAKING IN THE PRIMATE PREFRONTAL CORTEX: A NETWORK PERSPECTIVE

The prefrontal cortex (PFC) plays a central role in decision-making and cognitive control. However, PFC does not operate alone: cognition arises from the PFC interacting with the rest of the brain. Using high-density, multi-site neurophysiology in non-human primates, my talk will highlight several examples of how cognitive processes can be decoded in real time and shed light on the basic mechanisms by which brain areas communicate during cognition. I will show how interactions between the PFC and pre-motor areas enable decisions to be transformed into actions and how hippocampal-prefrontal interactions enable contextual reasoning. I will also show preliminary data that aims to characterize how fronto-striatal interactions underlie self-control.

Questions? Email us at:

UCLA

Brain Research Institute

UCLASYNCNS@gmail.com