"Micro- and Nano-scale Technologies for Mapping Sensory-Driven Activity from the Cortical Surface"

I will discuss a suite of flexible, transparent electrode technologies for high-density mapping of neural activity from the brain surface in behaving animals. Specifically, we show evidence that surface grids record biomarkers of subcellular activity that travel across the upper cortical layers during sensory stimulation. Thus, when we combine our grids arrays with existing technologies like silicon probes and two-photon imaging, we enable a platform for recording both subcellular dynamics and population-level outputs in awake animals.

Daniel Gonzales, Ph.D.
HHMI Hanna Gray Fellow
Purdue University

Tuesday
November 16, 2021
2:00 PM CT
1220 MRB III

This lecture series features the most promising young scientists who are making notable discoveries as postdoctoral fellows or early career faculty.

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