S272 Bionic Brains: Applications of Neurotechnology
UCLA Splash 2023

Instructor: Allison Peng, UCLA Neuroscience 2025, pengallison@ucla.edu

Course Description and Objectives:
This course is an introduction to assistive devices powered by neurotechnology and the scientific principles behind how they operate. Topics include basic neuroscience, electrophysiology, brain-computer interfaces, prosthetics, deep brain stimulation, and developing technologies. There are no prerequisites for this course.

Topics:
Neuroscience Basics
Electroencephalography
Brain-Computer Interfaces & Neuroprosthetics
Brain Stimulation: DBS & TMS
Research at UCLA and Beyond