

General Description:

With the emergence of complex AI models, we at CRUX aim to bridge the gap between technology and neuroscience. Our goal is to teach undergraduate students to build AI models to interpret brain waves (EEG), hopefully to aid in clinical endeavors. This club will teach you Python, machine learning models, brain waves/regions, and quantitative reasoning necessary for this field. We hope to foster an environment to facilitate discussion, innovation, and curiosity.

Requirements of new members:

Prior knowledge in coding or neuroscience is not necessary. The workshops will teach you the essential information on BCI headsets. A computer is required for coding and note-taking.

PLEASE FILL OUT THE GENERAL MEMBER APPLICATION. Without it, you won't be officially acknowledged as a club member. A \$5 membership fee is required; HOWEVER, it may be waived if necessary. Members must attend at least 7 out of the 9 total meetings, with an attendance form present after every meeting. Failure to meet this requirement will cause. If more than 2 meetings are missed, please contact us. Most of all, bring your passion and curiosity!

Contact information:

For any questions or concerns, contact the CRUX email: cruxneurotech@g.ucla.edu. All resources and material will be located at the CRUX website: <https://cruxucla.github.io>.

CRUX Fall Timeline:

M	9/29	Info Session!	Week 1
		6:30 PM, Kaplan A51	
M	10/6	Workshop 1: Introduction to Neurotech	Week 2
		6:30 PM, Kaplan A51	
M	10/13	Workshop 2: Understanding EEG Signals	Week 3
		6:30 PM, Kaplan A51	
M	10/20	Workshop 3: Preprocessing I	Week 4
		6:30 PM, Kaplan A51	
M	10/27	Workshop 4: Preprocessing II	Week 5
		6:30 PM, Kaplan A51	
M	11/3	Workshop 5: Feature Extraction	Week 6
		6:30 PM, Kaplan A51	
M	11/10	Workshop 6: Classification Models	Week 7
		7:00 PM, Boelter 3400	
M	11/17	Workshop 7: Evaluation and Visualization	Week 8
		6:30 PM, Kaplan A51	
M	11/24	Final Showcase + Team Pathways + BCI Team Signups	Week 9
		6:30 PM, Kaplan A51	
M	12/1	Good Luck on Finals!	Week 10
		No Meeting !	