Raymond Wang

raymondwang@berkeley.edu
University of California Berkeley (2018-Present) | GPA: 4.00/4.00

Experience

Undergraduate Researcher, **Redwood Center for Theoretical Neuroscience | | Jan 2020 - Present**

- Research focus: Using Continuous Attractor Neural Networks to model Head Direction cells and investigate the effect of noise on drift and errors in the system

Undergraduate Researcher, **Helen Wills Neuroscience Institute | | September 2019 - December 2019**

- Research focus: Investigating the neural mechanisms of memory encoding, storage and retrieval and the role of the hippocampus in memory formation and retrieval using novel imaging techniques.
- Animal Training Completed
- Training mice in a Virtual Reality setting
- Genotyping and Weaning CA3-Cre Mice
- Imaging Calcium ions in the pyramidal neurons in the CA1 region of the hippocampus using 2 photon microscopy

Lab Research Intern, **Case Western Reserve University School of Medicine Department of Neuroscience | Professor Mei Lin | June-July 2018**

- Assisted on Western Blot [PhD candidate working on Degenerative Brain Disease]
- Conducted PCR Genotyping [PhD candidate working on Electrophysiology]
- Conducted a In-Vitro Patch Clamp with assistance and managed to achieve a gigaseal on a neuron 8 hours post-extraction
- Observed Calcium Imaging implementation in mice [Post-Doc]
- Observed In-Vivo electrophysiology recordings
- Became familiar with animal protocol (mice)

Skills/Awards

- Microsoft Office Suite | Python | Scheme | SQL | R | Java | Git
- Bilingual (Chinese)
- Robert J. Kraft Award for Freshmen (awarded to ~ 300/9000 First Years)

Relevant Classes:

- **University of California Berkeley**

- Stat:140: Probability || Math 55: Discrete Math || CS61B : Data Structures || Stat 133 : Concepts in Computing with Data || Math 54 : Linear Algebra || Math 53 : Multivariable Calculus || Data 8 : Introductory Data Science || CS61A : Structure and Interpretation of Computer Programs