

CHING FANG

878 Bridgeway Circle, El Sobrante, CA 94803
510.325.8925
chingfang17@berkeley.edu

EDUCATION

University of California Berkeley

Expected Graduation: May 2018

B.A. in Molecular & Cell Biology, Neurobiology

B.A. in Computer Science

EXPERIENCE

Dan Feldman Lab | Helen Wills Neuroscience Institute

Fall 2014-present

Research Assistant

- Currently working on testing different neural spike-sorting algorithms to maximize signal detection.
- Previously worked in the SFARI behavioral project, measuring sensitivity of sensorimotor cortex in autism-model mice. Trained, collected, and interpreted data off of wild-type and autism-model.

UC Berkeley CS61BL: Data Structures

Fall 2016-present

Undergraduate Student Instructor

- Taught and led discussion and lab sections. Developed discussion worksheets and labs for the course.

Anne Collins Cognitive and Computational Neuro. Lab | UC Berkeley Psychology

Spring 2015-present

Research Assistant

- Coded a behavioral experiment application to test multi-dimensional learning. Used Amazon Mechanical Turk platform and hosted on OpenShift. Developed the front-end and back-end aspects of the project.

UC Berkeley Computer Science Mentors

Fall 2015-Spring 2016

Senior Mentor

- Tutored students in Berkeley's CS61A course in weekly discussion-based group sessions.

FemTech Make

Spring 2016-present

- Worked on building an aquatic ROV with the goal of finding leaks in pipes. Most parts were designed and made through 3D-printing or laser-cutting.

SKILLS AND ATTRIBUTES

Lab: Dissection (Cranial and Full-Body), Micro-pipetting, Thin Layer Chromatography, Gel Electrophoresis, Spectrophotometry, Titration, bacteria isolation, complementation, microtome, using BLAST/ NCBI/ ExPASy, histology (flattened cortex)

Languages (in order of comfort): Python, Java, C, Matlab, SQL, Javascript, HTML/CSS, Lisp

Activities: Cal Climbing, *Words of the Watershed* journal (staff)

RELEVANT COURSEWORK

Organic Chemistry

Biotechnology

Ecology/Plant Biology

Physiology/Anatomy

Introductory Physics

Biochemistry

Data Structures

Machine Structures

Artificial Intelligence

Discrete Math/Probability

Cellular & Molecular Neurobiology

Linear Algebra

PROJECTS

Available at chingf.github.io