Sequoia Eyzaguirre

sequoia-tree.github.io

EDUCATION

University of California, Berkeley

Berkeley, CA

B.A. of Computer Science with Highest Honors

August 2016 - May 2019

- $\circ \ \Phi BK \ Laureate, \ Regents' \& \ Chancellor's \ Scholar, \ EECS \ Honors \ Student, \ Outstanding \ Graduate \ Student \ Instructor.$
- o 4.0 GPA, with an A+ in most of my upper-division courses including CS 188: A.I. and CS 189: Machine Learning.

Research

Malasakit 2.0 (IEEE GHTC 2018)

Berkeley, CA

CITRIS & the Banatao Institute

November 2017 - October 2018

• Introduces multidialectal voice recognition to improve accessibility for low-literacy regions. Deployed in 4 field tests.

Malasakit 1.0 (IEEE GHTC 2017)

Berkeley, CA

CITRIS & the Banatao Institute

April 2017 - October 2017

- Robust to regional language differences unlike most supervised classification techniques, Malasakit identifies locally valuable disaster risk reduction (DRR) strategies and assesses correlations in related textual / demographic data.
- o Deployed in 12 field tests across the Philippines to crowdsource and collaboratively filter 100's of DRR strategies.
- $\circ~$ Won the Chancellor's Award for Research in the Public Interest.
- o Runner-up for the Pacific Telecommunications Council's Best Quality of Life Improvement Award.

FORDS: A First-Order Driving Simulator

Berkeley, CA

UC Berkeley AUTOLab, Samsung

April 2017 - December 2017

- Released as an Open A.I. module developed for Samsung, to generate synthetic data for training self-driving agents.
- Laid groundwork for FLUIDS: A First-Order Local Urban Intersection Driving Simulator, published at CASE 2018.

Development on AvatarMind's iPal Robot

Berkeley, CA

UC Berkeley AUTOLab, AvatarMind

August 2016 - May 2017

- Implemented and benchmarked reliable actuation of poses from the Human3.6M dataset under stochastic controls.
- Accomplished real-time cleaning of noisy video data from a \$10 webcam to make it usable for human pose mimicry.

Teaching & Course Development

CS 61A: The Structure and Interpretation of Computer Programs

Berkeley, CA

Head T.A. of Teaching, Head T.A. of Software, Guest Lecturer, T.A., Tutor

June 2017 - December 2018

- Wrote a popular beginner-level textbook covering novel approaches to thinking about recursion and DP.
- Invented a method of diagramming code execution, soon to be a standard component of the curriculum.
- Integrated MOSS with existing course infrastructure to detect plagiarism in programming assignments.
- \circ Taught the highest-rated discussion and lab sections in the Spring 2018 and Fall 2018 semesters.
- Spearheaded a concept-oriented office hours program, averaging twice the turnout of normal office hours.

CS 370: Introduction to Teaching Computer Science

Berkeley, CA

Instructor of Record, Head T.A., Guest Lecturer, Content Developer

August 2017 - December 2018

- Single-handedly ran CS 370 for a year, scheduling nearly 10,000 hours of tutoring and training ~250 new course staff.
- o Taught in Summer '18 as the youngest ever instructor of record in the department. It was the top-rated class offered.
- Engaged faculty, who voted unanimously to accredit CS 370 for the pedagogy training required of all EECS T.A.'s.
- Scaled CS 370 to 4 times its size, enabling 5,750+ hours of tutoring per semester. Simultaneously oversaw a rise in enrollment to 17% underrepresented minorities (compared to 2% in the department), and from 17% to 50% female.
- Redesigned the entire curriculum including lesson plans, assignments, course infrastructure, and exams to communicate hands-on teaching advice, and also modern research on pedagogy and psychosocial factors in learning.

CS 186: Introduction to Database Systems

Berkeley, CA

T.A., Content Developer

January 2019 - May 2019

• Writing a new official textbook covering database architecture and novel approaches to writing / visualizing SQL.

Berkeley Institute of Data Science & the Data Science Education Program

Berkeley, CA

Guest Lecturer, Content Developer

May 2017 - May 2018

- Redesigned the curriculum for Engineering 7, UC Berkeley's introductory programming course for mechanical engineers. The new curriculum, integrated with Jupyter and its own autograder, was well-received by faculty.
- o Designed curricula for LS 88: Visualizing Data and Art 23: Data Arts, to engage psychology students in data science.

Hunting Hunger Charity for the Homeless: Founder & Chair Barstow, CA and Berkeley, CA Raised \$10,000+ and delivered 2,500+ meals to homeless CA residents and impoverished veterans of the U.S. Marines.

Semper Fi Fund for Wounded Warriors: Activist & Donor

San Clemente, CA

Wrote a book to raise awareness for military families, and donated all \$10,000+ profits to the Semper Fi Fund.

CS Scholars & CS Kickstart: Head Student Instructor

Berkeley, CA

Taught female and underrepresented EECS freshmen how to combat impostor syndrome, stereotype threat, etc.

Hispanic Heritage Club: Founder & President

Barstow, CA

Oversaw a 25% decline in reports of racial prejudice against Hispanic students at Barstow Community College.