SEQUOIA EYZAGUIRRE

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Education

University of California, Berkeley
B.A. in Computer Science with Highest Honors *Aug. 2016 – May 2019*
- ΦBK Laureate, Regents' & Chancellor's Scholar, EECS Honors Student, Outstanding Graduate Student Instructor.
- Graduated age 19. 4.0 GPA. A+ in most upper-division courses incl. CS 188: A.I. and CS 189: Machine Learning.

Experience

Google Brain
Software Engineer *Oct. 2020 – present*
- Spearheaded the improvement of Play Store recommender models, developing novel TensorFlow tech in the process.

Teaching & Technical Writing

CS 186: Introduction to Database Systems
TA · Content Developer *Jan. 2019 – May 2019*

CS 370: Introduction to Teaching Computer Science
Instructor · Head TA · Content Developer *Aug. 2017 – Dec. 2018*
- Designed the curriculum, delivered lectures, scheduled nearly 10,000 hours of tutoring, and trained 250 course staff.
- Scaled CS 370 from 30 to 120 students, increasing representation of female and underrepresented students threefold.

CS 61A: The Structure & Interpretation of Computer Programs
Head TA · TA · Tutor · Lab Assistant *Jan. 2017 – Dec. 2018*
- Wrote a popular beginner-level textbook covering novel ways of approaching HOFs, DP, recursion, and asymptotics.
- Invented a new method of visually diagramming the lexical and dynamic state of a program as it evolves over time.

The UC Berkeley Institute of Data Science
TA · Content Developer *Apr. 2017 – Oct. 2017*
- Designed curricula for LS 88: Web Data Visualization and ART 23: Data Arts, to engage non-majors in data science.

Research & Selected Publications

COMPASS: Modeling and Analyzing the Metabolic State of Single Cells *(Cell, 2021)*
The YosefLab at UC Berkeley *Jun. 2019 – May 2020*
- Wrote a general-purpose library for analyzing cell-to-cell metabolic heterogeneity based on single-cell metabolic data.

Malasakit 2.0: Multidialectal Voice Recognition for Low-Literacy Surveys *(IEEE GHTC, 2018)*
Citris & The Banatao Institute *Nov. 2017 – May 2018*
- Implemented multidialectal voice recognition via feature phone to improve survey accessibility in low-literacy regions.

Malasakit 1.0: Collaboratively Filtering Disaster Risk Reduction Policies *(IEEE GHTC, 2017)*
Citris & The Banatao Institute *Apr. 2017 – Oct. 2017*
- Developed a data collection pipeline used to crowdsource and collaboratively filter hundreds of risk reduction policies.
- Made a dialect-agnostic analysis tool to assess and prioritize correlations in related textual and demographic data.

FORDS: A First-Order Driving Simulator
The AUTOLab at UC Berkeley · Samsung *Apr. 2017 – Oct. 2017*
- Built an Open A.I. module for Samsung, to generate customizable synthetic data sets for training self-driving agents.

Development on AvatarMind's iPal Robot
The AUTOLab at UC Berkeley · AvatarMind *Nov. 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.

Volunteerism

Semper Fi Fund for Wounded Warriors
- Wrote a book to raise awareness for disabled military veterans and donated $10,000+ in profits to the Semper Fi Fund.

Hunting Hunger Charity for the Homeless
- Raised $10,000+ and delivered 2,500+ meals to homeless CA residents and impoverished veterans of the U.S. military.