

ELICIA YE

Computer Science, Applied Mathematics, and French
4th Year at UC Berkeley

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SF Bay Area

EXPERIENCE

Machine Learning Software Engineer Intern

Facebook, Inc.

May – August 2021

Menlo Park, CA

- Improved ad delivery efficiency and efficacy to meet H2 goals for the Onsite Signals Intelligence team.
- Drove an independent research project to make recommendations for future model development iterations using various state of the art machine learning techniques.

RISELab Undergraduate Researcher

Professor Kannan Ramchandran, Yaoqing Yang, EECS

Sep 2020 – present

Berkeley, CA

- Investigate methods to improve robustness of deep learning networks with out-of-distribution corruptions using entropy-based pruning and applying data augmentations.

Natural Language Processing (NLP) Researcher

Professor Marti Hearst and John Canny, Philippe Laban

Jan – June 2021

Berkeley, CA

- Create and apply NLP interfaces for the NewsLens project using a large (7M+ articles) dataset of news articles.
- Generate model podcast transcripts as baseline for the NewsLens Interactive Podcast interface (in production).

CS170 Undergraduate Student Instructor

Department of EECS, UC Berkeley

Jan 2020 – present

Berkeley, CA

- Head Pedagogy: develop relevant enrichment problems, create content to help students master the subject area.
- Instruct weekly sections and hold office hours to reinforce core concepts in CS theory (e.g. dynamic/linear programming, greedy, FFT, duality, NP-completeness, etc.).

Software Development Engineer Intern

Amazon.com, Inc.

May – August 2020

Seattle, WA

- Built API that adapted forecasting to user input, decreasing data nonavailability by 50 percent for all requests after being deployed to production.
- Learned and applied AWS infrastructure (S3, DynamoDB, CloudFront, Redshift) to efficiently configure data.

CS61B Course Coordinator

Computer Science Mentor

Jan 2019 – May 2021

Berkeley, CA

- Train and supervise mentors; organize and lead course-wide review sessions for up to 2000 students per semester.
- Organize diversity, equity and inclusion initiatives.

EDUCATION

University of California, Berkeley

Computer Science, B.A., Applied Mathematics, B.A., French, B.A.

Expected May 2022

- GPA: 3.92/4.00, CS Major GPA: 3.95
- EECS Honors Program
- The Leadership Award (Cal Alumni Assoc.)
- Upsilon Pi Epsilon (CS honor society)

Saratoga High School

June 2018

Saratoga, CA

- High Honors (GPA: 4.4/4.0)

PUBLICATIONS

- (submitted) A. Zhao, Y. Yang, E. Ye, Z. Liu, X. Yue, V. Shirsat, Y. Zhou, K. Keutzer, J. Gonzalez, K. Ramchandran, M. Mahoney. "ME-Prune: Highly Compressed and Robust Neural Networks via Matrix Entropy Based Channel Pruning", submitted to IEEE/CVF Conference on Computer Vision and Pattern Recognition
- (submitted) P. Laban, E. Ye, S. Korlakunta, J. Canny, M. Heart. "NewsPod: Automatic and Interactive News Podcasts", submitted to ACM Conference on Intelligent User Interfaces.

COURSES

- Machine Learning (CS189), Deep Neural Networks (CS182)
- Algorithms and Intractable Problems (CS170), Data Structures (CS61B)
- Probability Theory and Random Processes (EECS126), Information Theory and Coding (EE229A), Electrical Engineering (EECS16A+B)
- Operating Systems (CS162), Computer Security (CS161), Computer Architecture
- Real Analysis (Math 104), Linear Algebra, Discrete Mathematics, Abstract Algebra
- French literature and linguistics courses

SKILLS

Programming languages: Java, Python, C, Go, Scheme, SQL

Foreign languages: Mandarin (Bilingual), French (Advanced)

Additional: Graphics, Technical/Journalistic Writing, Adobe Creative Suite, Event Management