

Alan Liang

alanliang@berkeley.edu ✉
(510) 365-6794 ☎
allian in
alanliang.me 🌐
sideye 🔄

Education

University of California, Berkeley Aug 2020 - May 2021

M.Eng in **Electrical Engineering & Computer Sciences (EECS)**

Concentration: Data Science and Systems

University of California, Berkeley Aug 2016 - May 2020

B.A. in **Computer Science**, B.A. in **Economics** with honors

GPA: 3.94 (Technical GPA: 3.98), Highest Distinction

Computer Science Databases, Algorithms, Data Structures, UI/UX, Machine Struct.

Data Science Machine Learning, Data Science Principles, Business Analytics

Economics Macro/microeconomics, Econometrics, Financial Econ, Macro Policy

Experience

BCG GAMMA

Summer AI Software Engineer

Jun 2020 - Current

Boston, MA (Remote)

QuantCo

Data Science Intern

Jun 2019 - Aug 2019

San Francisco, CA

- Developed market pricing models and tools on behalf of QuantCo for a large market-maker. Built services for sellers site-wide to automatically price inventory, reducing error by 50% from existing models.
- Trained and implemented models on GCP w/ tensorflow, integrating the deployment process into the client's machine learning pipelines for production.
- Conducted economic research to propose more optimal pricing strategies.

Seele Tech

Software Engineering Intern

May 2018 - Aug 2018

San Francisco, CA

- Implemented data pipeline of social metrics from scratch: wrote programs for data collection, deployed databases, conducted data analysis for insight, and built a live dashboard to present metrics and KPIs. Used AWS for deployment.
- Created bots for alerts and auto moderation in channels with 30k+ members, using NLP for sentiment monitoring and ML classifiers for spam detection.

UC Berkeley

Course Co-Founder & Teaching Assistant

Aug 2018 - Current

Berkeley, CA

- Co-found and lecture the first data science economics connector course, *DATA 88*, to 50 students. Create interactive material based on real-world data in Jupyter.
- Instruct weekly lab and discussion sections to 30+ students, hold office hours, and conduct grading for *Data 8: Foundations of Data Science*.
- Course administrator for CY 298, a 40+ grad student data science intro course.

Division of Data Sciences, UC Berkeley

External Team Lead

Jan 2018 - Current

Berkeley, CA

- Lead team to grow data science education initiatives across 200+ institutions.
- Manage an agile development team to build open-source course infrastructure, including auto-grading and telemetry logging used by 8k+ students.
- Run a 100k+ student edX MOOC, providing active support to students online.
- Grow team from 1 person to 21 people, greatly expanding team responsibilities.

Microsoft

Program Management Intern

May 2017 - Jul 2017

Shanghai, China

- Worked on customer acquisition for Azure IoT tooling through search engine optimization, AB testing, customer development, and developer outreach.
- Conducted web traffic and user telemetry analysis through SQL dialects & Power BI for data insight to improve conversion and optimize user experience.

Research & Projects

Augmented Synthetic Controls

Build and refine an open source R package implementing the augmented synthetic control method, used in statistics & economics to analyze treatment effects in panel data settings.

Dish Based Reviews

Scraped and extracted info from all Yelp reviews in SF to perform dish based sentiment analysis and thus provide users with ordering recommendations. Trained a new sentiment analyzer from the collected review data.

Occupancy Taxes

Conducted causal inference of changes in price and quantity in the short-term rental market caused by a newly introduced occupancy tax in Boston, using the synthetic controls method.

Conspicuous Consumption

Analyzed social media data for research on individual conspicuous consumption. Built classifiers on profiles for predictions and feature analysis.

National Data Sci Education

Co-author of peer-reviewed papers examining data science education and infrastructure in US & Canadian universities. Paper was presented at SciPy2018 & 2019 and JupyterCon.

Activities

Microsoft Student Partner

Empower students with technology mainly focusing on Azure services.

Computer Science Mentor

Taught weekly sessions for CS 70: *Discrete Math and Probability*.

UPE Nu Chapter

Member of UPE's UC Berkeley chapter, a computer science honor society. Part of web development committee.

Quiz Bowl and History Bowl

Staff and moderate local & national tournaments. Organized and led team to win multiple international competitions. Club President and Team Captain in High School.