

Alan Liang

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Education

University of California, Berkeley **Exp. Grad May 2021***

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

GPA: 3.94 (Technical GPA: 3.98), Dean's Honors List (top 4%)

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

Data Science Data Science, Business Analytics, Data & Decision Making

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

* Will be graduating with a bachelor's degree in 2020, but intend on attaining a MS degree by Spring 2021

Experience

QuantCo

Jun 2019 - Aug 2019

Data Science & Engineering Intern

San Francisco, CA

- Developed and built market pricing models in R & python used for auto-pricing and pricing guidance tools, reducing error by 50% from existing models.
- Trained and implemented models on GCP w/ tensorflow, integrating the deployment process into machine learning pipelines for production.
- Conducted economic research to propose more optimal pricing strategies.
- Consulted for QuantCo at a market-making tech company in data science.

Seele Tech

May 2018 - Aug 2018

Software Engineering Intern

San Francisco, CA

- Implemented data pipeline of social metrics from scratch: wrote programs for data collection, deployed databases, conducted data analysis for insight, and made 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.
- Wrote technical articles, translated documentation, and conducted blockchain algorithm research for project white paper and yellow papers on consensus.

Division of Data Sciences, UC Berkeley

Jan 2018 - Current

Project Manager & Team Lead

Berkeley, CA

- Manage an agile student developer team to build open-source course infrastructure, including auto-grading and telemetry logging used by 8k students.
- Lead an adoption team to strategize and grow data science education initiatives by building a national community of practice. Collaborate with 30+ institutions to help implement data science infrastructure and adopt data science pedagogy.
- Grow team from 1 person to 21 people, greatly expanding team responsibilities.
- Run a 100k+ student edX MOOC, providing active support to students online.

Microsoft

May 2017 - Jul 2017

Program Management Intern

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.
- Helped double monthly traffic and grow monthly attached users by 6 times.

UC Berkeley

Aug 2018 - Current

Course Co-Founder & Teaching Assistant

Berkeley, CA

- Co-found and lecture the first data science economics connector course, *DATA 88*, to 50 students. Create interactive course material in Jupyter notebooks.
- 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.

Research & Projects

Augmented Synthetic Controls

Help build and refine a R package w/ Professor Jesse Rothstein 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 hence provide users with ordering recommendations. Trained a new sentiment analyzer from the collected review data.

Conspicuous Consumption

Worked with an Economics PhD to scrape and analyze 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.

RemindMe!

Built a collaborative to-do list app on Android with cloud sync for caretakers.

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.