

# Alan Liang

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## Skills

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### Data Analysis

SQL and dialects, R, Jupyter, NumPy, Scikit-Learn, Pandas, Matplotlib, Hypothesis testing, Modeling and Classification, Power BI, Google Analytics

### Program Management

Scrum/agile processes, customer development, A/B and user testing, Microsoft Sharepoint

### Programming

Python, Java, Scheme

### Native Languages

English, Chinese

### Miscellaneous

HTML & CSS, Technical Writing, LaTeX, Git, Unix, Microsoft Office, Adobe Photoshop, Final Cut Pro

## Activities

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### Computer Science Mentors

- Teach weekly sessions for *Discrete Mathematics and Probability* (CS 70).

### Lab Assistant

- Assist students in multiple labs for *The structure and interpretation of computer systems* (CS 61A) weekly.

### UPE Nu Chapter

- Member of UPE's UC Berkeley chapter, a computer science honor society

### Quiz Bowl and History Bowl

- Staff and moderate national and local tournaments
- Organized and led team to win multiple international competitions around Asia
- Club President and Team Captain in High School (2013-2016)

## Education

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### University of California, Berkeley

Exp. Grad 2020

Economics B.A., Computer Science B.A.

GPA: 3.90 (Technical GPA: 3.97)

**Data Science** Data Science Principles, Data & Decision Making in Business, Statistics | **Economics** Macroeconomics, Cryptocurrencies | **Computer Science** Data Structures, Efficient Algorithms, Computer Programs | **Math** Discrete Math and Probability, Linear Algebra and Differential Equations, Multivariate Calculus

## Experience

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### DIV. OF DATA SCIENCES, UC BERKELEY Jan 2018-Current

Project management intern working on internal and external expansion of data science education and research through scaling Jupyter clusters and Berkeley's data science education programs. Pivotal in conducting and managing projects for long term growth, expansion, and technical sustainability, including establishing workflows and training processes. Collaborate with internal teams and communicate with institutions to create and maintain resources, tools, and documentation for a seamless adoption process.

### MICROSOFT

May-Jul 2017

Program management intern in Microsoft C+E's Developer Division for Azure IoT tooling. Worked on customer acquisition through search engine optimization, A/B testing, customer development, and developer outreach. Conducted web traffic analysis and analyzed user telemetry through SQL dialects and Power BI for data insight to improve conversion and optimize user experience. Helped double monthly traffic and grow monthly attached users by 6 times.

### XYZ-E EDUCATION GROUP

Jan-Mar 2016

Paid student intern conducting question and knowledge-point analysis at a start-up that created a machine-learning software designed for personalized learning in mathematics.

## Projects and Research

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### Instagram Data | Python

Work with UC Berkeley PhD Candidate Max Mueller to help collect and analyze Instagram post data in research on Conspicuous consumption of Champagne at nightclubs.

### Predicting Trump's Tax Cuts | Python, Jupyter

Conducted multivariate linear regression of historical tax data to predict the effects of Trump's tax cuts on income inequality.

### The Lorenz curve and Income Inequality

Explored models of the Lorenz curve and investigated their effects on measuring income inequality.

### Housing Prices | Python, Scikit-learn, Jupyter

Conducted feature analysis to construct a linear regression model to predict housing prices