

Peter Zhang

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Education

University of California, Berkeley

Berkeley, CA

Computer Science & Economics B.A.; 4.00 Cumulative GPA

Class of 2023

- **Coursework** Data Structures, Discrete Math and Probability, Functional Programming, Linear Algebra, Statistics
- **Activities** Voyager Consulting, Debate Society at Berkeley, Computer Science Mentors, Berkeley Economic Review

Experience

Voyager Consulting

Berkeley, CA

Monster Project Consultant

Sep 2020–Present

- Performed qualitative analysis on the marketing and flavor development strategies of Mosnter's competitors
- Leveraged sentiment analysis, time series modeling, and clustering to model trends in the beverage industry

National Institute of Standards and Technology

Gaithersburg, MD

Applied Economics Research Intern

May 2020–Sep 2020

- Annotated 50+ papers on resilience planning to find trends in how co-benefits are treated in benefit-cost analysis
- Published user manual and case study for Edge\$, an online decision-making software for resilience projects

NLP Research Intern

Jun 2019–Aug 2019

- Wrote Python scripts to preprocess corpora and construct subject-predicate-object tuples with NLTK/Gensim
- Improved Latent Dirichlet Allocation topic modeling using root-and-rule preprocessing in Jupyter Notebook trials

National Cancer Institute

Rockville, MD

Data Visualization Research Assistant

Jul 2019–Apr 2020

- Scraped and reformatted 1 billion+ gene expression datapoints from drug trials to expedite user queries
- Developed R Shiny app for dynamic plotting/analysis and created an Electron-based MacOS deployable

Projects

Debate Analysis

Sep 2020–Present

- Scraped tens of thousands of debate tournament results and publicly posted debate cases
- Found patterns in disclosure practices, judging decisions, gender biases, and geographic differences

World4

Apr 2019

- Carrying capacity model based on Spearman correlation and regression of 20+ environmental indicators
- Awarded Top 6 in the US in the International Mathematics Modeling Competition for rigor and innovation

Eye Coach

Jan 2019

- Swift app using augmented reality and Haar cascades to help people with autism train eye contact
- Built in 24 hours at Hack Pennsylvania, winning best-in-show among 100+ other participants

Roller Coaster Ranker

Nov 2018

- Neural network that predicts ratings from auto-encoded coaster features like height, speed, location, etc.
- Awarded finalist in the International High School Mathematics Challenge in Modeling among 280+ teams

Skills

Languages Python, R w/ Shiny, Java, SQL, HTML/CSS/Javascript, MATLAB, \LaTeX

Tools Git/Terminal, VS Code/IntelliJ/Android Studio, WordPress, Electron, Jupyter

Awards

UC Berkeley Leadership Award; Recipient

Jul 2020

USA Computing Olympiad; Platinum Division

Apr 2020

American Regions Mathematics League; 8th Place

Jun 2019