

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

Consultant

Sep 2020–Present

- Performed qualitative analysis on marketing and flavor development strategies in the beverage industries
- Used sentiment analysis, time series modeling, and clustering to gain insights from social media and sales data

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, Azure/AWS

Awards

UC Berkeley Leadership Award; Recipient

Jul 2020

USA Computing Olympiad; Platinum Division

Apr 2020

American Regions Mathematics League; 8th Place

Jun 2019