

# 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, Probability, Statistics, Linear Algebra, Data Science, Microeconomics

Activities: Voyager Consulting, Debate Society of Berkeley, Computer Science Mentors, Berkeley Economic Review

## Experience

### Voyager Consulting

Berkeley, CA

Monster Energy Consultant

Sep 2020–Present

- Quantified consumer interest in 55 product categories from scraped social media and Google Trends data
- Forecasted demand from 4.5M rows of CPG sales data to suggest product development and launch strategies

### Premier Debate America

Los Angeles, CA

Product Manager

Dec 2018–Present

- Oversee monthly publication of 200+ pages of topic research used freely by thousands of debaters nationwide
- Design and maintain premierdebate.com using Wordpress and CSS/Javascript with 67,000 visitors in 2019

### National Institute of Standards and Technology

Gaithersburg, MD

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

Summer 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 coherence by over 30% using root-and-rule preprocessing

### National Cancer Institute

Rockville, MD

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 200k+ outcomes from debate tournaments and 5k+ publicly posted debate cases
- Published trends in tournament attendance, competitor composition, argument styles, and more

### 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

- iOS app built with 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, Java, SQL Lite/MySQL, HTML/CSS/JavaScript, MATLAB,  $\text{\LaTeX}$

**Tools** Git/Terminal, Azure/AWS, VSCode/IntelliJ/Android Studio, WordPress, Electron, Shiny

## Awards

UC Berkeley Leadership Award; Recipient

Jul 2020

National Speech and Debate Tournament; 6th Place

Jun 2020

USA Computing Olympiad; Platinum Division

Apr 2020

American Regions Mathematics League; 8th Place

Jun 2019