

# Peter Zhang

🏠 15429 Indianola Drive, Derwood, MD 20855, USA

✉ petez@berkeley.edu 📞 (240) 994-2204 💼 peterzhang.info 🌐 petezh 📄 pjz

## 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

## 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

## Experience

### DeWaste

Berkeley, CA

Data Science Intern

Jan 2021–Present

- Detect anomalies and trends in food waste datasets to create actionable advice for partnered food vendors
- Craft intuitive R Shiny and D3 visualizations that provide meaningful feedback to non-technical users

### Monster Energy

Berkeley, CA

Contract Consultant

Sep 2020–Dec 2020

- 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 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

### National Institute of Standards and Technology

Gaithersburg, MD

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

## 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

## 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