

Peter Zhang

🏠 15429 Indianola Drive, Derwood, MD 20855, United States of America
✉ 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 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

Quantitative Consultant

Sep 2020–Present

- Analyzed social media and Google Trends data to forecast consumer interest in 55 groups of products
- Performed demand forecasting on 4.5M rows of CPG sales data to find successful products and launches

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

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 200k+ outcomes from debate tournaments and 5k+ 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

- 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 w/ Shiny, Java, SQL Lite/MySQL, HTML/CSS/Javascript, MATLAB, \LaTeX

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

Awards

UC Berkeley Leadership Award; Recipient

Jul 2020

USA Computing Olympiad; Platinum Division

Apr 2020

American Regions Mathematics League; 8th Place

Jun 2019