Peter Zhang

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Education

University of California, Berkeley **Berkeley, CA**
Computer Science and Economics B.A.; 4.00 Cummulative GPA Class of 2024
- **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

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
- Wrote case study of wildfire-resistant retrofits by estimating and comparing 10 sources of costs/benefits in Excel
- Published user manual for Edge$, an online decision-making software for community 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
- Co-authored R Shiny app for dynamic plotting/analysis and created an Electron-based MacOS deployable

Premier Debate America **Los Angeles, CA**
Product Manager Dec 2018–Present
- Lead bi-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

Projects

WikiGrab Jul 2020–Present
- Repository of publicly disclosed debate speeches and tournament entries scraped with Python
- Building R shiny interface to conduct dynamic analysis of disclosure practices and competition results

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/Jupyter, R w/ Shiny, Java, SQL, HTML/CSS/Javascript, MATLAB
Tools Git/Terminal, VS Code/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