

# Peter Zhang

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## Education

### University of California, Berkeley

Berkeley, CA

Computer Science and Economics B.A.; 4.00 Cumulative 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

### The Bronx High School of Science

Bronx, NY

Assistant Debate Coach

Aug 2020–Present

- Lead two practices each week for a team of 30+ Lincoln-Douglas debaters and drill with students one-on-one
- Judge and coach at two tournaments each month, providing strategic advice and feedback to competitors

### 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

### 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

## Projects

**WikiGrab** Python web scraper and repository of disclosed debate cases and tournament entries Jul 2020

**VerbatimReader** VBA macro for reformatting debate documents to a screen-reader accessible format Nov 2019

**World4** Global carrying capacity model based on regression analysis of environmental indicators Apr 2019

**Eye Coach** Mobile app with augmented reality to help people with autism train eye contact Jan 2019

**Coaster Ranker** Neural network that predicts roller coaster ratings from height, speed, location, etc. Nov 2018

## Skills

**Languages** Python/Jupyter, R w/ Shiny, Java, PHP/SQL, HTML/CSS/Javascript, MATLAB

**Tools** Git/Terminal, VS Code/IntelliJ/Android Studio, WordPress, Electron

## Awards

UC Berkeley Leadership Award; Recipient Jul 2020

National Speech and Debate Tournament; 6th Speaker Jun 2020

USA Computing Olympiad; Platinum Division Apr 2020

American Regions Mathematics League; 8th Place Jun 2019

International Mathematics Modeling Challenge; Finalist Apr 2019

Hack Pennsylvania; Best In Show Jan 2019