

Jonathan Zhang www.linkedin.com/in/jz53

Experience

Xie Lab, Perelman School of Medicine

Researcher, August 2020 to Present

- Develop unbiased, efficient statistical methods for analyzing Alzheimer's biomarker data using R
- Create and maintain lab website

CSSI-Coursera, Google

Student, June 2020 to August 2020

- Completed Algorithmic Toolbox course and discussed algorithm design in office hours

Freelance Tutor, January 2018 to May 2020

- >300 hours tutoring ACT/SAT/PSAT, high school science and math

Google Code-In | www.codein.withgoogle.com/archive

Mentor, December 2019 to January 2020

- Managed hundreds of student tasks; reviewed submissions and answered questions

St. Jude, Memphis, TN | www.stjuderesearch.org/site/lab/yu/people

Computational Biology Intern, June to August 2019

- Coded pipeline with R that generated intercellular networks from scRNAseq data
- Curated gene databases and created network visualizations of breast cancer data

Mulan Asian Bistro East, Memphis, TN | www.mulaneast.net

Host, July 2018 to January 2019

First Author | Toll-Like Receptor Agonists in Cancer Therapy

- Novel Approaches in Cancer Study (NACS) (<https://u.nu/c4xtt>)

Skills

Applications: Overleaf (LaTeX), Word, Excel, PowerPoint, Tableau

Development: R, Python, C, Java, Git

Personal: Public Speaking, Leadership, Presentation, Team Communication, Customer Service

Honors

Lockheed Martin STEM Scholar | 2020-2023

- \$10,000 scholarship for 3 years awarded to incoming university engineering majors

SIAM MathWorks Math Modeling Challenge 2nd Place Paper | April 2020

- Modeled the growth and industrial implications of electric trucking through economic data in paper "Stuck with Trucks? Anticipate an Uptick in Electrick" (www.u.nu/f44-j)

CEE USABO Semifinalist (2x) | April 2019, April 2020

- Out of >5,000 participants, advanced to the semifinal level (top 10%) on written biology exam

Google Code-In Grand Prize Winner for Digital Impact Alliance | January 2019

- Out of 3,124 programmers, declared 1 of 54 winners for exemplary open-source contributions over the 50-day task period

Education

University of Pennsylvania | Class of 2024 | Jerome Fisher Management & Technology Program

- B.S. Economics (Wharton); B.S.E. Computer Science (SEAS: School of Eng. and Applied Sci.)

White Station High School | Class of 2020

- GPA: 4.734 | Class Rank: 5 / 466
- *Activities:* Science Olympiad (Build Leader) | Model UN (Vice President) | Biology Olympiad (Vice President) | Community Service Club (Co-President)