

# Jonathan Zhang [www.linkedin.com/in/jz53](http://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](http://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](http://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](http://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:** [Proficient] LaTeX, Word, Excel, PowerPoint

**Development:** [Beginner] C, Java [Familiar] Python, HTML/CSS/JS + Bootstrap [Proficient] R, Git

## Honors

### **Lockheed Martin STEM Scholar** | 2020-2023

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

### **SIAM MathWorks Math Modeling Challenge 2<sup>nd</sup> 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](http://www.u.nu/f44-j))

### **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.)