Jason Fang

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EDUCATION

University of Pennsylvania

B.A. in Economics and Computer Science, Minor in Statistics and Data Science Aug. 2024 – May 2028

GPA 3.70/4.0

Relevant Coursework: Data Structures & Algorithms; Automata, Computability, and Complexity; Statistics for Economists; iOS Programming; Linear Algebra; Discrete Mathematics; Intro to Neuroscience; Intro to Cognitive Science; Research Practicum in Cognitive Science

White Station High School

GPA 4.79/4.0 UW/W Aug. 2020 – May 2024

Honors: 2× USA Biology Olympiad Semifinalist; TN Science Olympiad; All-State Orchestra; Scholastic Gold Key; Governor's School for Science & Engineering; Captain, Varsity Tennis

PROFESSIONAL EXPERIENCE

Wharton People Analytics

Applied Insights Team Sep. 2024 – Mar. 2025

- Applied statistical modeling and data mining in R and SQL to study workforce upskilling and mobility trends using large-scale organizational datasets.
- Collaborated with data scientists to identify key predictors of career mobility through regression and clustering analyses.
- Prepared interim report summarizing empirical findings for The Wharton School and Walmart research partnership.

St. Jude Children's Research Hospital

Research Intern – Computational Biology (Yu Lab) Jun. 2024 – May 2025

- Developed algorithms and applied survival analysis to identify gene regulatory drivers in intrahepatic cholangiocarcinoma using single-cell RNA-seq data.
- Benchmarked and optimized the **scMINER** R package (*Nature Communications*, 2025), improving computational efficiency and reproducibility across high-performance clusters.
- Contributed to data visualization pipelines and statistical validation for pathway-level biomarker discovery in tumor microenvironments.

St. Jude Research Immersion Program

Research Intern – Structural Biology (Kalodimos Lab) Jun. 2023 – Aug. 2023

- Supported cryo-EM structural analysis of the ALK receptor to characterize conformational dynamics and ligand interactions.
- Automated data preprocessing and assisted in purification protocols to improve throughput and reproducibility.

LEADERSHIP & EXTRACURRICULAR EXPERIENCE

Wharton Marketing Undergraduate Student Establishment Oct. 2024 – Present

Innovation Committee

- Created and tested targeted marketing campaigns for Swipe Threads, a student-led fashion tech startup, driving a 213% increase in waitlist sign-ups (from 75 to 235) and a 30% increase in Instagram engagement over one semester.
- Conducted market research through surveys and user testing with over 50 students, leading to app refinements that improved beta user retention by 20%.

Biomedical Engineering Society Oct. 2024 – Present

External Committee

- Coordinated cross-departmental professional events for 150+ students and faculty; managed logistics and budgeting for Johnson & Johnson career trek.

Penn Undergraduate Biotech Society Sep. 2024 – Present

- Host and produce the club podcast, leading end-to-end production including outreach, scripting, and publishing of biotech and AI interviews.

Under the Button Feb. 2025 – Present

- Collaborate in a fast-paced editorial team to develop and publish satirical content for *The Daily Pennsylvanian*.

Tennis Memphis Aug. 2023 – Feb. 2024

- Supervised daily training logistics and led drills for youth athletes while managing tutoring and aftercare scheduling.

Lindenwood Christian Church Food Drive Mar. 2022 – May 2024

- Organized monthly food drives serving 200+ families and coordinated volunteer operations to improve delivery efficiency.

SKILLS & INTERESTS

Technical: R, Python, SQL, Java; Git, Linux, HPC workflows; Data visualization and statistical modeling.

Research Skills: Single-cell analysis, survival modeling, cryo-EM processing, computational biology pipelines.

Languages: Fluent Mandarin; Intermediate Spanish.

Interests: Computational biology, cancer genomics, statistical genetics, neural computation.