

EDUCATION

Carnegie Mellon University
Bachelor of Science in Statistics
Concentration in Psychology
GPA: 3.44 | Major GPA: 3.51

Pittsburgh, PA
August 2022 – December 2025

Relevant Courses

Statistical Methods in Epidemiology	Causal Inference	Probability Theory
Statistical Machine Learning	Statistical Graphics and Visualization	Meta-Analysis
Advanced Methods in Data Analysis	Statistical Computing	Research Methods in Cognitive Psychology
Modern Regression	Statistical Inference	Modern Biology

Honors

Dean's List, High Honors: Fall 2022, Spring 2025
Dean's List: Spring 2023, Spring 2024

RESEARCH EXPERIENCE

UnitedHealth Group Data Analytics Intern
Carnegie Mellon University

Pittsburgh, PA
June 2025 – July 2025

- Analyzed COVID-19 cases and deaths in Pennsylvania, using EDA and K-means clustering to explore county-level patterns
- Modeled the impact of physical inactivity and food access on adult obesity rates with regression, GAMs, and regularization techniques using large-scale health data
- Attended workshops and mentorship sessions with UHG professional, gaining experience in healthcare analytics and data-driven decision-making

Research Assistant
Optimized Algorithms and Knowledge (OAK) Lab, Carnegie Mellon University

Pittsburgh, PA
January 2023 – Present

- Conducted multilevel modeling (iAFM analyses) on data from 100+ participants to assess the effects of rule matching and interleaved pretraining on learning outcomes
- Engineered prompts for large language models (e.g., ChatGPT) to extract structured data from qualitative responses
- Created 10+ visualizations (e.g., bar plots, line plots, correlation matrices) and performed statistical tests (e.g., t-tests, chi-square tests, ANOVA) to evaluate how learning support and relational rule understanding impacted performance
- Designed a Qualtrics survey to compare learning methods and motivation, analyzed results, and visualized trends in Excel
- Anonymized and organized 200+ test papers, ensuring compliance with privacy standards by labeling, scanning, and uploading them to a shared drive

TEACHING EXPERIENCE

Teaching Assistant
Research Methods in Cognitive Psychology, Carnegie Mellon University

Pittsburgh, PA
January 2025 – May 2025

- Served as the sole TA for a class of 8 students; managed timely grading of all assignments while maintaining a full academic schedule
- Aided students with limited R experience in debugging code, conducting analyses, and interpreting results during weekly held office hours and in lectures

PROFESSIONAL EXPERIENCE

Financial Research Intern
Zhong Ou Asset Management Intl

Hong Kong
June 2024 – August 2024

- Created Excel visualizations to compare investment performance using advanced formulas, pivot tables, and conditional formatting
- Compiled monthly outlook reports summarizing China's economic indicators and competitor analysis to support strategic planning

VOLUNTEER & LEADERSHIP EXPERIENCE

Data Analyst	Pittsburgh, PA
<i>Students Using Data for Social Good, Carnegie Mellon University</i>	February 2024 – May 2025
- Conducted statistical analyses (e.g., fisher’s, kruskal-wallis, survival analysis) on healthcare data from 600+ clients to identify medication error patterns and improve service delivery for individuals with developmental disabilities - Created 8+ visualizations (e.g. bar plots, survival curves) and co-presented actionable insights to nonprofit stakeholders to guide service improvements and resource allocation	
Board Member	Pittsburgh, PA
<i>Cognitive Science Student Advisory, Carnegie Mellon University</i>	August 2023 – Present
- Organized and promoted 10+ events to engage cognitive science majors via Discord, email, and Instagram; proposed the Boba finals pickup event, which became a popular, recurring tradition - Interviewed and onboarded 5 new board members; mentored 5 students in statistics/data analytics track on coursework and research	

PROJECTS

Hope and Depression Among Pandemic Graduates	March 2025 – May 2025
<i>Tools Used: R</i>	
- Analyzed responses from 100+ survey participants to assess mental health differences between 2020 vs. 2021 graduates - Applied PCA and logistic regression; developed and evaluated 5 models using bootstrap samples to ensure predictive reliability	
Meta Analysis: Gender Stereotype Threats in Academic Settings	February 2024 – May 2024
<i>Tools Used: R, Excel Collaborators: Amor Ai, Sisley Yang, Frank Janicke, Eesha Nagpal, Camille Chandler</i>	
- Screened 117 studies, extracted effect sizes from 13 peer-reviewed articles - Independently wrote a research paper summarizing the impact of gender-based cognitive performance in academic settings	
Experiment: Gender Stereotype Threats and Heading-Recall Task	April 2024
<i>Tools Used: Jamovi, Gorilla, Excel, Figma Collaborators: Cami Streuly, Shirley Du, Cole Kaforey</i>	
- Conducted 1,400+ trials across 35 participants measuring memory performance under various conditions - Cleaned and analyzed data using ANOVA; co-presented results at the CMU Department of Psychology’s undergraduate research poster session	

PROFESSIONAL SKILLS

Programming & Statistical Analysis	
R (RStudio): tidyverse, data.table, caret, survival, markdown reporting, statistical modeling Quarto: presentation, markdown reporting SQL: PostgreSQL querying, relational database management Python: Basic knowledge of pandas and numpy for data analysis and manipulation Jupyter Notebook: Integrated Python/R computing for reproducible analysis Excel: Pivot tables, advanced formulas, conditional formatting, charts	
Experimental & Survey Design	
Qualtrics, Gorilla: Experimental protocol design, randomization, data collection LaTeX: Scientific writing and formatting	
Languages	
English (Native), Mandarin Chinese (Heritage Proficiency), Spanish (Limited Proficiency)	