

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 Bridges to Healthcare Technology Research Intern

Carnegie Mellon University

Pittsburgh, PA

June 2025 – July 2025

- Applied regression modeling and variable selection techniques to identify key predictors of obesity rates, supporting policy discussions on physical inactivity and food access; co-presented findings to UHG professionals and peers
- Performed EDA and k-means clustering on COVID-19 case and death data across Pennsylvania counties; co-presented insights to cohort members
- Attended workshops and mentorship sessions with UHG professionals, 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 impact performance
- Designed a Qualtrics survey to compare learning methods and motivation, analyzed results, and visualized trends in Excel
- Anonymized 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
<ul style="list-style-type: none">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 disabilitiesCreated 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
<ul style="list-style-type: none">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 traditionInterviewed and onboarded 5 new board members; mentored 5 students in statistics/data analytics track on navigating coursework and identifying research opportunities	

PROJECTS

Hope and Depression Among Pandemic Graduates	March 2025 – May 2025
<i>Tools Used: R</i> <ul style="list-style-type: none">Analyzed responses from 100+ survey participants to assess mental health differences between 2020 vs. 2021 graduatesApplied 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> <ul style="list-style-type: none">Screened 117 studies, extracted effect sizes from 13 peer-reviewed articlesIndependently 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 Keforey</i> <ul style="list-style-type: none">Conducted 1,400+ trials across 35 participants measuring memory performance under various conditionsCleaned data and performed ANOVA to analyze memory performance; co-presented results at the CMU Department of Psychology undergraduate research poster session.	

PROFESSIONAL SKILLS

Programming & Data Analysis <ul style="list-style-type: none">R: tidyverse, data.table, caret, survival, statistical modeling, markdown reportingPython: Basic knowledge of pandas and numpySQL: PostgreSQL querying, relational database managementExcel: Pivot tables, advanced formulas, conditional formatting, chartsJupyter Notebook: Integrated R/Python for reproducible workflowsQuarto: Markdown reporting, presentations	
Research Tools & Experimental Design <ul style="list-style-type: none">Qualtrics, Gorilla: Survey and experimental protocol design, randomization, data collectionLaTeX: Scientific writing and formattingGitHub: Version control and collaborative coding	
Languages <ul style="list-style-type: none">English (Native), Mandarin Chinese (Heritage Proficiency), Spanish (Limited Proficiency)	