

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

Statistical Machine Learning

Advanced Methods in Data Analysis

Modern Regression

Causal Inference

Statistical Graphics and Visualization

Statistical Computing

Statistical Inference

Probability Theory

Meta-Analysis

Research Methods in Cognitive Psychology

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

- 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 <i>Students Using Data for Social Good, Carnegie Mellon University</i>	Pittsburgh, PA 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 <i>Cognitive Science Student Advisory, Carnegie Mellon University</i>	Pittsburgh, PA 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 coursework and research	

PROJECTS

CMU Capstone Project <i>Tools Used: R Collaborators: [To be added]</i>	August 2025 – Present
<ul style="list-style-type: none">[To be added]	
Hope and Depression Among Pandemic Graduates <i>Tools Used: R</i>	March 2025 – May 2025
<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 <i>Tools Used: R, Excel Collaborators: Amor Ai, Sisley Yang, Frank Janicke, Eesha Nagpal, Camille Chandler</i>	February 2024 – May 2024
<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 <i>Tools Used: Jamovi, Gorilla, Excel, Figma Collaborators: Cami Streuly, Shirley Du, Cole Keforey</i>	April 2024
<ul style="list-style-type: none">Conducted 1,400+ trials across 35 participants measuring memory performance under various conditionsCleaned and analyzed data using ANOVA; co-presented results at the CMU Department of Psychology’s 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)