

EDUCATION

Carnegie Mellon University
B.S. in Statistics, Expected December 2025
Concentration in Psychology
GPA: 3.44 | Major GPA: 3.51

Pittsburgh, PA

Relevant Coursework

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 Program, Carnegie Mellon University
Research Intern

Pittsburgh, PA
Summer 2025

- Applied regression modeling and variable selection techniques to identify key predictors of obesity; informed policy discussions on targeted interventions; presented findings to UHG professionals and cohort members.
- Executed trend analysis on COVID-19 case and death data across Pennsylvania counties using EDA and k-means clustering to uncover patterns and insights.
- Engaged in workshops and mentorship sessions with UHG professionals, gaining hands-on experience in healthcare analytics and data-driven decision-making.

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

Pittsburgh, PA
Spring 2023 – Present

- Applied methods to extract structured insights from qualitative participant responses, using text embedding and clustering techniques to identify patterns in responses.
- Created 10+ visualizations on learning outcomes, including analyses of blocked vs. interleaved training and learning support, and prepared reports to communicate findings.
- Implemented multilevel modeling on data from 100+ participants to evaluate effects of rule matching and interleaved pretraining on learning outcomes.
- Designed and analyzed Qualtrics survey comparing learning methods and motivation, synthesizing results and visualizing trends.
- Managed anonymization of 200+ test papers, ensuring privacy compliance through labeling, scanning, and organized data uploading.

TEACHING EXPERIENCE

Research Methods in Cognitive Psychology, Carnegie Mellon University
Teaching Assistant

Pittsburgh, PA
Spring 2025

- Supported 8 students in debugging R code, conducting analyses, and interpreting statistical results during office hours and lectures, while managing a full academic schedule.

PROFESSIONAL EXPERIENCE

Zhong Ou Asset Management Intl
Financial Research Intern

Hong Kong
Summer 2024

- Produced 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

Students Using Data for Social Good, Carnegie Mellon University	Pittsburgh, PA
<i>Data Analyst</i>	Spring 2024 – Spring 2025
<ul style="list-style-type: none">Applied statistical analyses (Fisher’s exact test, Kruskal-Wallis test, survival analysis) on healthcare data from 600+ clients with developmental disabilities, identifying patterns in medication errors and risk factorsGenerated 8+ visualizations and data reports, translating findings into actionable insights that guided nonprofit stakeholders in improving service delivery and resource allocation	
Cognitive Science Student Advisory, Carnegie Mellon University	Pittsburgh, PA
<i>Executive Board Officer</i>	Fall 2023 – Present
<ul style="list-style-type: none">Organized and promoted 10+ social and academic events, including guest lectures and networking opportunities, connecting cognitive science majors with peers, mentors, and alumni.Launched the Boba Finals Pickup, a recurring end-of-semester study break providing stress relief and community engagement during finals week.Interviewed and onboarded 5 new board members; mentored 5 students in the statistics/data analytics track on navigating coursework and identifying research opportunities.	

PROJECTS

Hope and Depression Among Pandemic Graduates	Spring 2025
<i>Tools Used: R</i> <ul style="list-style-type: none">Evaluated responses from 100+ survey participants to assess mental health differences between 2020 and 2021 graduates.Developed and applied statistical modeling (PCA, logistic regression) and statistical sampling (bootstrap) techniques to build and validate 5 predictive models for mental health outcomes.	
Meta Analysis: Gender Stereotype Threats in Academic Settings	Spring 2024
<i>Tools Used: R, Excel Collaborators: Amor Ai, Sisley Yang, Frank Janicke, Eesha Nagpal, Camille Chandler</i> <ul style="list-style-type: none">Authored class research paper summarizing gender-based cognitive performance outcomes.Screened 117 studies and extracted effect sizes from 13 peer-reviewed articles; synthesized findings into a comprehensive meta-analysis.	
Experiment: Gender Stereotype Threats and Heading-Recall Task	Spring 2024
<i>Tools Used: Jamovi, Gorilla, Excel Collaborators: Cami Streuly, Shirley Du, Cole Keforey</i> <ul style="list-style-type: none">Ran 1,400+ trials across 35 participants measuring memory performance under varied conditions.Cleaned data, performed ANOVA, and delivered results at the CMU Department of Psychology undergraduate research poster session.	

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 numpy and SBERTSQL: 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)	