

EDUCATION

Carnegie Mellon University

B.S. in Statistics & Data Science, December 2025

Concentration in Psychology

GPA: 3.5

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	Modern Biology
Modern Regression	Statistical Inference	

Honors

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

RESEARCH EXPERIENCE

UnitedHealth Group Bridges to Healthcare Technology Research Program, Carnegie Mellon University

Pittsburgh, PA

Research Intern

Summer 2025

- Conducted exploratory data analysis (EDA) and regression modeling to identify predictors of obesity in a team project; presented results to UHG professionals and cohort members to inform potential interventions.
- Performed k-means clustering and EDA on COVID-19 case and death trends across Pennsylvania counties in a team project; presented findings to cohort members.
- 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

Pittsburgh, PA

Research Assistant

Spring 2023 – Fall 2025

- Applied text analysis and clustering techniques to extract structured insights from 10,000+ qualitative participant responses.
- Implemented multilevel modeling on data from 150+ participants to evaluate effects of rule matching and interleaved pretraining on learning outcomes.
- Created 20+ visualizations and executed statistical tests on learning outcomes in R, including analyses of blocked vs. interleaved training and learning support, and prepared weekly progress reports to communicate findings.
- Designed and analyzed Qualtrics survey comparing learning methods and motivation, synthesizing results and visualizing 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

Research Methods in Cognitive Psychology, Carnegie Mellon University

Pittsburgh, PA

Teaching Assistant

Spring 2025

- Instructed 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

Hong Kong

Financial Research Intern

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 AND LEADERSHIP EXPERIENCE

Students Using Data for Social Good, Carnegie Mellon University

Pittsburgh, PA

Data Analyst

Spring 2024 – Spring 2025

- 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 factors.
- Generated 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

Executive Board Officer

Fall 2023 – Fall 2025

- Organized and promoted 10+ academic and social events, including guest lectures and networking opportunities that connected undergraduates with graduate students and faculty.
- Launched the Boba Finals Pickup, a recurring end-of-semester event, providing peers with boba as a morale booster and fostering informal community interaction during finals.
- Interviewed and onboarded 5 new board members; mentored 5 students in the statistics/data analytics track on navigating coursework and identifying research opportunities.

PROJECTS

Developmental trajectories of racial attitudes in young children

Fall 2025

Class Project – Undergraduate Capstone

- Collaborated with a teammate to analyze longitudinal trends in children's racial attitudes using EDA, logistic, and multinomial regression in R, presenting weekly/biweekly progress to our advisor and client and delivering final project materials including a poster, report, presentation, and recorded summary.

Mental Health Outcomes of COVID-19 Graduates

Spring 2025

Class Project – Data Science in Psychology and Neuroscience

- Evaluated 100+ participant survey responses to assess mental health differences between the undergraduate classes of 2020 and 2021; developed and applied statistical modeling (PCA, logistic regression) and sampling (bootstrap) techniques in R to build and validate five predictive models for mental health outcomes.

Gender Stereotype Threat Interventions and Academic Performance

Spring 2024

Class Project – Research Methods in Meta-Analysis

- Worked with a team to investigate how gender stereotype threats affect academic outcomes through a meta-analysis of 117 studies; articles were screened together, then effect sizes were independently extracted from 13 peer-reviewed articles and analyzed in R to produce an individual research paper summarizing finding.

Gender Stereotype Threat and Memory Performance in a Heading-Recall Task

Spring 2024

Class Project – Research Methods in Cognitive Psychology

- Teamed with three classmates to design and conduct a heading-recall task testing memory performance under gender stereotype threat (35 participants, 1,400+ trials); built the experiment in Gorilla, cleaned data in Excel, and performed ANOVA analyses in Jamovi; presented results at the CMU Department of Psychology undergraduate research poster session.

SKILLS

Programming & Data Analysis

- R: tidyverse, data.table, caret, survival, statistical modeling, markdown reporting
- Python: Basic knowledge of pandas and numpy
- SQL: PostgreSQL querying, relational database management

Research Tools & Experimental Design

- Qualtrics, Gorilla: Survey and experimental protocol design, randomization, data collection
- LaTeX: Scientific writing and formatting
- GitHub: Version control and collaborative coding
- Excel: Pivot tables, advanced formulas, conditional formatting, charts
- Jupyter Notebook: Integrated R/Python for reproducible workflows
- Quarto: Markdown reporting, presentations

Languages

- English (Native), Mandarin Chinese (Heritage Proficiency), Spanish (Limited Proficiency)