

Erin H. Bugbee

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EDUCATION

Carnegie Mellon University Pittsburgh, PA
Ph.D. Candidate in Cognitive Decision Science 2020–2025 (Anticipated Defense: April 2025)

Carnegie Mellon University Pittsburgh, PA
M.S. Social and Decision Sciences (Earned en route to Ph.D.) 2020–2022

Brown University Providence, RI
Sc.B. Statistics and A.B. Behavioral Decision Sciences, Magna Cum Laude (GPA: 3.97/4.00) 2016–2020

INDUSTRY EXPERIENCE

Apple Austin, TX
Machine Learning Engineer Intern Summer 2024

- Strategic Data Solutions, Applied Data Science Program
- Developed features and evaluated impact on ML model for fraud detection for Apple Pay Later.

Amazon Web Services Seattle, WA
Applied Scientist II Intern Summer 2022 and 2023

- Machine Learning University, AWS Deep Learning
- Developed machine learning content at Amazon's **Machine Learning University (MLU)**. Taught machine learning courses on basics of machine learning, responsible AI, and generative AI to approx. 600 Amazon employees. Conceptualized, built, launched, and taught new course on topics in bias and fairness in large language models. Created and launched challenge on gender bias in machine translation. Wrote and developed MLU-Explain articles on **Logistic Regression** and **Reinforcement Learning**.

Disney Orlando, FL
Sales Analytics & Insights Professional Intern Summer 2019

- Consumer Insights, Measurement, & Analytics Organization
- Performed analytics for the Disney Cruise Line, predicted Disneyland Anaheim attendance with machine learning, analyzed flight data for John Wayne Airport, which contributed to the addition of new flights.

Microsoft Redmond, WA
Explore Intern (Product Management and Software Engineering) Summer 2018

- Microsoft Support Engineering Group, Universal Store Team, Cloud + AI Division
- Developed portal for Microsoft Support case submission with a Virtual Agent and customer service data.

RESEARCH

Research Interests: Sequential decision making, human and machine learning, exploration-exploitation

Research Impact: 8 peer-reviewed publications in the field of human and machine intelligence, 4 of which are first-authored. Learn more about [my publications](#).

SKILLS

- **Programming:** Python, R, MATLAB, Spark, SQL, Snowflake SQL, Java, Javascript, HTML, CSS, Svelte
- **Tools:** R Markdown, Quarto, Shiny, Jupyter Notebooks, \LaTeX , Git, Github
- **Behavioral Experiments:** Surveys, Qualtrics, Amazon Mechanical Turk, Prolific, Cognitive Walkthroughs
- **Data Visualization:** ggplot2, Matplotlib, Pandas, Tableau, D3.js