

Erin H. Bugbee

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EDUCATION

- Carnegie Mellon University** Pittsburgh, PA
Ph.D. Student in Cognitive Decision Science, Advisors: Russell Golman and Cleotilde Gonzalez 2020–Current
- Brown University** Providence, RI
B.S. in Statistics and Behavioral Decision Sciences, GPA: 3.97/4.00, Magna Cum Laude 2016–2020
– Honors Thesis: “Understanding Human and Artificial Decision Makers Using Reinforcement Learning”

EXPERIENCE

- Dynamic Decision Making Lab, Carnegie Mellon University** Pittsburgh, PA
Graduate Research Assistant Fall 2020–Current
- Sloman Lab, Brown University** Providence, RI
Undergraduate Research Assistant Fall 2019–Summer 2020
- Learning, Memory & Decision Lab, Brown University** Providence, RI
Undergraduate Research Assistant Spring 2019–May 2020
- Summer@ICERM: Topological Data Analysis** Providence, RI
REU Participant Summer 2017

PUBLICATIONS

- [1] C. Savard, **E. H. Bugbee**, M. R. McGuirl, and K. M. Kinnaird, “SUPP & MAPP: Adaptable structure-based representations for MIR tasks”, in *ISMIR*, 2020, pp. 335–342.
- [2] M. R. McGuirl, K. M. Kinnaird, C. Savard, and **E. H. Bugbee**, “SE and SNL diagrams: Flexible data structures for MIR”, in *ISMIR*, 2018, pp. 341–347.

WORKING PAPERS

- R. Golman, **E. H. Bugbee**, A. Jain, S. Saraf, “Hipsters and the Cool: A Game Theoretic Analysis of Social Identity, Trends and Fads”, *Second R&R at Psychological Review*
- C. Gonzalez, P. Aggarwal, **E. H. Bugbee**, “Deceiving from Experience: Using Cognitive Models as Influencers.”
- S. Tatlidil, **E. H. Bugbee**, M. Dick, B. Hemmatian, S. Sloman, “Algorithms as Advisors in the Future of the Workplace.”

WORK IN PROGRESS

- The Science of Understanding. Work with Cleotilde Gonzalez and Leslie Blaha.
- Biases from Experience. Work with Cleotilde Gonzalez.

TEACHING

- **Teaching Assistant** at Carnegie Mellon University Fall 2020
85-232: Thinking in Person vs. Thinking Online, Professor Danny Oppenheimer
- **Teaching Assistant** at Brown University Spring 2020
NEUR 1660: Neural Computations Underlying Learning and Decision Making, Professor Matthew Nassar
- **Head Teaching Assistant** at Brown University Fall 2019
CSCI 0100: Data Fluency for All, Professor Amy Greenwald
- **Teaching Assistant** at Brown University Spring 2019
CSCI 1951a: Data Science, Professor Ellie Pavlick
- **Teaching Assistant** at Brown University Spring 2019
CLPS 0220: Making Decisions, Professor Steven Sloman
- **Teaching Assistant** at Brown University Fall 2018
APMA 1655: Advanced Statistical Inference I, Professor Caroline Klivans
- **Teaching Assistant** at Brown University Fall 2018
PHP 1501: Essentials of Data Analysis, Professor Roe Gutman
- **Teaching Assistant** at Brown University Fall 2017
CSCI 0100: Data Fluency for All, Professor Amy Greenwald

PROJECTS

See full list of projects on erinbugbee.com/projects

- The Science of Understanding
 - Cognitive models of transfer learning across tasks.
 - Cognitive Models of Sequential Decision Making
 - Instance-based learning models for sequential choice in the optimal stopping task.
 - Deceiving From Experience
 - Compliance with deceptive signals using an instance-based learning model.
- Hipsters and the Cool
 - A game theoretic analysis of social identity, trends and fads.
 - The Role of Reasons and the Hot Stove Effect
 - The effect of reasons in mitigating the hot stove effect.
 - Algorithm Aversion
 - Trust in algorithms as advisors in the future of the workplace.

PRESENTATIONS

Talks

- **“Cognitive Models of Sequential Choice in the Optimal Stopping Task”**
Society for Mathematical Psychology July 2021
- **“Reinforcement Learning in Dynamic Environments for Place Cell Remapping”**
Learning, Memory, & Decision Lab, Brown University November 2019
- **“Comparing Songs Without Listening”**
Brown Math Slam, Society for Industrial and Applied Mathematics/AWM November 2018
- **“SE and SNL Diagrams: Flexible Data Structures for MIR”**
The International Society for Music Information Retrieval Conference September 2018

Summer@ICERM: Topological Data Analysis

REU Participant

Summer 2017

Poster Presentations

“Algorithms as Advisors in the Future of the Workplace”

Society for Judgment and Decision Making Conference, Remote

December 2020

“SuPP and MaPP: Novel MIR Data Structures Inspired by TDA”

The International Society for Music Information Retrieval Conference

September 2018

“Comparing Songs Using Matrix Pattern Preservation”

Women in Data Science Conference

March 2018

“Comparing Songs Using Matrix Pattern Preservation”

Joint Mathematics Meetings

January 2018

“Comparing Songs Using Matrix Pattern Preservation”

NEMISIG (Northeast Music Informatics Special Interest Group)

January 2018

GRANTS AND FELLOWSHIPS

- Presidential Fellowship, Dietrich College of Humanities and Social Sciences, Carnegie Mellon University 2020 –2025

HONORS AND AWARDS

- Premium for Excellence in Behavioral Decision Sciences, Brown University 2020
- Brown Data Science Fellow 2020
- Bob Petrocelli Head Undergraduate TAship, Brown University Department of Computer Science 2019
- Class of '81 Undergraduate TAship for Women in CS, Brown University Department of Computer Science 2020
- Disney Data & Analytics Women Scholarship Recipient 2019
- Outstanding Poster Award, Joint Mathematics Meetings 2018

INDUSTRY EXPERIENCE

The Walt Disney Company

Orlando, FL

Sales Analytics & Insights Intern

Summer 2019

– Consumer Insights, Measurement, & Analytics Organization

– Performed analytics for the Disney Cruise Line, predicted Disneyland Anaheim attendance by determining leading indicators for international markets using regression analysis, analyzed flight data for John Wayne Airport.

Microsoft

Redmond, WA

Explore Intern (Program Management and Software Engineering)

Summer 2018

– Microsoft Support Engineering Group, Universal Store Team, Cloud + AI division

CONFERENCES AND TRAVEL AWARDS

MathPsych/ICCM Society for Mathematical Psychology	Remote July 2021
Society of Judgment and Decision Making Conference The Society of Judgment and Decision Making	Remote December 2020
ISMIR 2020 International Society for Music Information Retrieval – ISMIR Student Travel Grant	Montreal, Canada October 2020
ASA Women in Statistics and Data Science 2020 Women in Data Science Conference – ASA WSDS Student Travel Award	Remote October 2020
ASA Women in Statistics and Data Science 2019 Women in Data Science Conference – ASA WSDS Student Travel Award, Brown Data Science Initiative Travel Grant	Bellevue, WA October 2019
Disney Data & Analytics Conference (DDAC) The Walt Disney Company	Orlando, FL August 2019
News vs. Truth Seminar with Jon Klein and Steven Sloman Brown University	Providence, RI Spring 2019
Collaborate@ICERM 2019 ICERM – ICERM Grant	Providence, RI January 2019
Machine Intelligence Conference MIT Media Lab – ICERM Grant	Cambridge, MA November 2018
ISMIR 2018 International Society for Music Information Retrieval – ISMIR Student Travel Grant, Brown Data Science Initiative Travel Grant	Paris, France September 2018
Disney Data & Analytics Conference (DDAC) The Walt Disney Company – Disney Data & Analytics Women Scholarship	Orlando, FL August 2018
Women in Data Science (WiDS) Worcester Polytechnic Institute	Worcester, MA March 2018
Northeast Music Information Special Interest Group (NEMISIG) Brown University and Spotify	Providence, RI January 2018
Joint Mathematics Meetings The American Mathematical Society and the Mathematical Association of America – JMM Student Travel Grant, ICERM Travel Grant	Orlando, FL San Diego, CA

PROFESSIONAL AFFILIATIONS

- Society for Mathematical Psychology 2021–Current
Trainee Member, Women of Mathematical Psychology Member
- Society for Judgment and Decision Making 2020–Current
Student Member
- Cognitive Science Society 2020–Current
Student Member
- American Statistical Association 2018–Current
Student Member

SKILLS

- **Programming:** R, Python, MATLAB
- **Tools:** L^AT_EX, Git, R Markdown, Jupyter Notebooks
- **Experiments:** Qualtrics, mTurk, Prolific