Erin H. Bugbee

Website: erinbugbee.com
Email: ebugbee@andrew.cmu.edu
LinkedIn: erinbugbee
GitHub: github.com/erinbugbee

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", *Submitted R&R at Psychological Review, December 2020.*

- 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 Roee 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 (2021)
  Cognitive models of transfer learning across tasks.

- The Role of Reasons and the Hot Stove Effect (2021)
  The effect of reasons in mitigating the hot stove effect.

Presentations

Talks

"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

Society of Judgment and Decision Making Conference   Remote
The Society of Judgment and Decision Making   December 2020

ISMIR 2020   Montreal, Canada
International Society for Music Information Retrieval   October 2020

- ISMIR Student Travel Grant

ASA Women in Statistics and Data Science 2020   Remote
Women in Data Science Conference   October 2020

- ASA WSDS Student Travel Award

ASA Women in Statistics and Data Science 2019   Bellevue, WA
Women in Data Science Conference   October 2019

- ASA WSDS Student Travel Award, Brown Data Science Initiative Travel Grant

Disney Data & Analytics Conference (DDAC) Orlando, FL
The Walt Disney Company August 2019

News vs. Truth Seminar with Jon Klein and Steven Sloman Providence, RI
Brown University Spring 2019

Collaborate@ICERM 2019 Providence, RI
ICERM January 2019

- ICERM Grant

Machine Intelligence Conference Cambridge, MA
MIT Media Lab November 2018

- ICERM Grant

ISMIR 2018 Paris, France
International Society for Music Information Retrieval September 2018

- ISMIR Student Travel Grant, Brown Data Science Initiative Travel Grant

Disney Data & Analytics Conference (DDAC) Orlando, FL
The Walt Disney Company August 2018

- Disney Data & Analytics Women Scholarship

Women in Data Science (WiDS) Worcester, MA
Worcester Polytechnic Institute March 2018

Northeast Music Information Special Interest Group (NEMISIG) Providence, RI
Brown University and Spotify January 2018

Joint Mathematics Meetings Orlando, FL
The American Mathematical Society and the Mathematical Association of America San Diego, CA

- JMM Student Travel Grant, ICERM Travel Grant

Professional Affiliations

- 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:** LaTeX, Git, R Markdown, Jupyter Notebooks
- **Experiments:** Qualtrics, mTurk, Prolific