





ERIN BUGBEE

774-2320930 
erin_bugbee@brown.edu 
Erin Bugbee 
erinbugbee.com 



SUMMARY

- **Statistics, Data Science, Decision Science Student at Brown University**
- **Published Researcher in Machine Learning**
- **Data Science and Statistics Leader, Teaching Assistant, Tour Guide, Copy-editor**



EDUCATION

Sc.B. Candidate, Statistics | Brown University

SEPTEMBER 2016 – MAY 2020

A.B. Candidate, Behavioral Decision Sciences | Brown University

SEPTEMBER 2016 – MAY 2020

Specialization in Artificial Intelligence

GPA: 3.95/4.0



INDUSTRY EXPERIENCE

Sales Analytics & Insights Intern | The Walt Disney Company

SUMMER 2019

Explorer Intern | Microsoft

SUMMER 2018



RESEARCH

Learning, Memory, and Decision Lab

SPRING 2019 – PRESENT

Advisor: Matt Nassar

Researching reinforcement learning in dynamic environments with applications to computational cognitive neuroscience. Affiliated with Carney Institute for Brain Science.

Institute for Computational and Experimental Research in Mathematics

SUMMER 2017 – PRESENT

Advisor: Katherine Kinnaird

Summer@ICERM REU in topological data analysis and music information retrieval. Affiliated with Brown Data Science Initiative. Developing machine learning algorithms for comparing songs.

Crawford Lab, Department of Biostatistics

FALL 2017 – FALL 2018

Advisor: Lorin Crawford

Collaboration with Duke University and the Duke Cancer Institute. Using Bayesian statistical modelling to detect genes involved in treatment resistance in prostate cancer.



TEACHING

- CS 0100: Data Fluency for All
- CLPS 0220: Making Decisions
- PHP 1501: Essentials of Data Analysis
- CS 1951a: Data Science
- APMA 1655: Statistical Inference I



PUBLICATIONS

“SE and S_NL Diagrams: Flexible Data Structures for MIR.” Accepted to the 19th Proceedings of the International Society for Music Information Retrieval Conference, in Paris, France, 2018, a peer-reviewed journal. Attended ISMIR 2018 in Paris to present publication.

“SuPP and MaPP: Novel MIR Data Structures Inspired by Topological Data Analysis.” Lightly peer-reviewed late-breaking session of the 2018 International Society for Music Information Retrieval Society Conference. Co-first author.



AWARDS

Class of '81 UTaship for Women in CS

Awarded by the Brown Department of Computer Science, Spring 2019.

Disney Data & Analytics Women Scholarship Recipient

Scholarship to attend Disney Data & Analytics Conference in August 2018. Presented machine learning research.

Outstanding Poster Award, 2018 Joint Mathematics Meetings

Comparing Songs Using Matrix Pattern Preservation



ACTIVITIES

- Brown Data Science Club (2016 – Present)
 - President (2019 – Present)
 - Marketing Team Leader (2018 – 2019)
 - Outreach Team Member (2017 – 2018)
 - Club Member (2016 – 2017)
- Statistics Departmental Undergraduate Group (DUG) Leader (2018 – Present)
- Diversity and Inclusion Committee Undergraduate Representative for the Center for Statistical Sciences and Department of Biostatistics (2018 – Present)
- Science Tour Guide (2017 – Present)
- Copy-editor for the Brown Daily Herald (2016 – Present)
- American Statistical Association Student Member (2018 – Present)
- Alpha Chi Omega (2017 – Present)
 - Chapter Relations and Standards Board Representative
 - Class of 2020 Risk Representative



SKILLS

- R, Python, MATLAB for data science/research
- Decision Science, Artificial Intelligence, Reinforcement Learning
- Java, Stata, HTML, CSS, Javascript
- Statistical Programming and Data Analysis