




# 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 & 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<sub>N</sub>L Diagrams: Flexible Data Structures for MIR.”** Accepted to the 19<sup>th</sup> 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