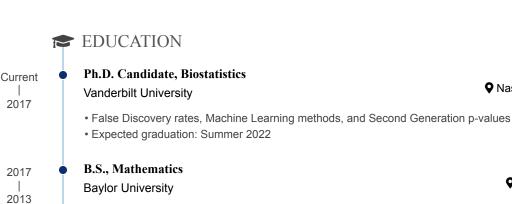
MEGAN HOLLISTER MURRAY





• Expected graduation: Summer 2022

Waco.TX

· Honors Thesis: Multi-Parameter Functions in Chaotic Dynamical Systems

RESEARCH EXPERIENCE

Current 2020

Graduate Research Assistant

Vanderbilt University

Nashville, TN

- · Identifying determinants of racial disparities in lung cancer stage
- Contributed to the research findings and writing of a \$1.25M multi-investigator federal grant

2020 2018

NIH TL1 Trainee

Vanderbilt University

Nashville, TN

- An evaluation of machine learning and classical statistical methods for discovery in large-scale
- · Compared machine learning methods and statistical inference methods for discovery in largescale translational data. Found that traditional methods perform as well as machine learning methods.

2019 2018

Statistical Evidence in Data Science Lab

Vanderbilt University

Nashville, TN

- "Large-Scale Inference" by Bradley Efron
- A small group of students and professors read through and discussed in detail the first 6 chapters of Efron's book along with a selection of complimentary papers.

2017 2015

Chaos Theory Lab

Baylor University

♥ Waco, TX

- "An Introduction to Chaotic Dynamical Systems" by Robert L. Devaney
- · Lab group carefully read and proved theorems and propositions from this book. Dr. Brian Raines guided us through the theory.

2016

Applied Mathematics Undergraduate Researcher

North Carolina State University

Raleigh, NC

- Applied Mathematics Research Experience for Undergraduates
- Mathematically modeled chemical absorption and metabolism through the skin. On a team of four undergraduate students mentored by a biochemist from the EPA.

CONTACT

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in murraymegan25

LANGUAGE **SKILLS**

R
Stata
Bash
Python
C++

The source code is available on my GitHub.

Last updated on 2020-12-

03.

♣ TEACHING EXPERIENCE **Probability & Statistical Inference** Current Nashville, TN Vanderbilt Data Science Department 2019 · Masters course covers the fundamentals of probability theory and statistical inference. **Contemporary Statistical Inference** 2020 Nashville, TN Vanderbilt Biostatistics Department TA and lectured • Graduate course focuses on the goal(s) of statistical tools for inference. SELECTED PUBLICATIONS, POSTERS, AND TALKS Factors Influencing Precision Medicine Knowledge and Attitudes 2020 PLOS One Paper · Authored with Rohini Chakravarthy, Sarah Stallings, Michael Williams, Mario Davidson, Juan Canedo, and Consuelo H. Wilkins. • Published November 11, 2020. https://doi.org/10.1371/journal.pone.0234833 False Discovery Rate Computation: Illustrations and Modifications 2020 Arxiv Paper · Authored with Jeffrey D. Blume. • In process of being submitted to the R Journal. https://arxiv.org/abs/2010.04680 An evaluation of machine learning and classical statistical methods for discovery in 2019 large-scale translational data. Philadelphia, PA **ENAR Conference Short Oral Presentation** An evaluation of machine learning and classical statistical methods for discovery in 2019 large-scale translational data. Washington D.C. **ACTS Conference Poster Presentation** • Ranked in top 25% of posters Modeling Dermal Diffusion and Metabolism for Consumer Products 2017 Atlanta, GA Joint Mathematics Meeting Poster Presentation · Ranked in top 10% of posters T AWARDS AND SCHOLARSHIPS The University Graduate Fellowship 2020 O Nashville, TN Vanderbilt University 2017 · Awarded by the Graduate School to highly qualified students entering study for the PhD or the master's degree. **Distinguished Teaching Assistant** 2020 Nashville, TN Vanderbilt Biostatistics Department 2019 · Awarded each year based on student recommendations for a helpful and intelligent TA.