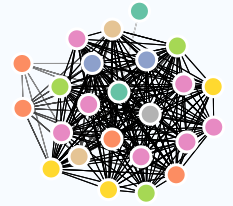


MEGAN HOLLISTER MURRAY



EDUCATION

Current
|
2017

- **Ph.D. Candidate, Biostatistics**
Vanderbilt University Nashville, TN
 - Advisor: Jeffrey D. Blume
 - False Discovery rates, Machine Learning methods, and Second Generation p-values
 - Expected graduation: Summer 2022

2017
|
2013

- **B.S., Mathematics**
Baylor University 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

- **Research & Development Statistics Intern**
Eli Lilly
 - In the Real World Analytics team under the direct supervision of Anthony Zagar.
 - Extended the Frequentist Model Averaging technique to survival outcomes.

2020
|
2018

- **NIH TL1 Trainee**
Vanderbilt University Nashville, TN
 - An evaluation of machine learning and classical statistical methods for discovery in large-scale translational data.
 - Compared machine learning methods and statistical inference methods for discovery in large-scale translational data.

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.

TEACHING EXPERIENCE

Current
|
2019

- **Probability & Statistical Inference**
Vanderbilt Data Science Department Nashville, TN
 - Head TA
 - Masters course covers the fundamentals of probability theory and statistical inference.

CONTACT



murraymegan25@gmail.com



github.com/murraymegan



meganhmurray.com



[murraymegan25](#)

LANGUAGE SKILLS

R

Stata

Bash

Python

C++

Last updated on 2021-08-24.

2021
|
2020



Contemporary Statistical Inference

Vanderbilt Biostatistics Department

📍 Nashville, TN

- TA and lectured
- Graduate course focuses on the goals of statistical tools for inference.



SELECTED PUBLICATIONS, POSTERS, AND TALKS

2021



FDRestimation: Flexible False Discovery Rate Computation in R

F1000 Research

- Authored with Jeffrey D. Blume.
- Published June 3, 2021. <https://doi.org/10.12688/f1000research.52999.1>

2021



Immunotherapy-Mediated Thyroid Dysfunction: Genetic Risk and Impact on Outcomes with PD-1 Blockade in Non-Small Cell Lung Cancer

Clinical Cancer Research

- J. Luo et al.
- Published August 11, 2021. <https://doi.org/10.1158/1078-0432.CCR-21-0921>

2020



Factors Influencing Precision Medicine Knowledge and Attitudes

PLOS One Paper

- R. Chakravarthy et al.
- Published November 11, 2020. <https://doi.org/10.1371/journal.pone.0234833>

2021



False Discovery Rate Computation: Illustrations and Modifications

ENAR Conference Short Oral Presentation

2021



FDRestimation: Flexible False Discovery Rate Computation in R

Vanderbilt Biostatistics Seminar

2019



An evaluation of machine learning and classical statistical methods for discovery in large-scale translational data.

ENAR Conference Short Oral Presentation

📍 Philadelphia, PA

2019



An evaluation of machine learning and classical statistical methods for discovery in large-scale translational data.

ACTS Conference Poster Presentation

📍 Washington D.C.

- Ranked in the top 25% of posters.



AWARDS AND SCHOLARSHIPS

2021

|
2020



Exceptional Teaching Assistant Award

Vanderbilt Data Science Department

📍 Nashville, TN

- Awarded to both a first year course and second year course teaching assistant to recognize exceptional support and dedication to peer education.

2020

|
2019



Distinguished Teaching Assistant

Vanderbilt Biostatistics Department

📍 Nashville, TN

- Awarded each year based on student recommendations for a helpful and intelligent TA.