

Preprints

1. Moubadder, L., Bliss, M., Maliniak, M., **Waddel, H. B.**, Switchenko, J., Chang, H., Kramer, M., & McCullough, L. (2024). Increasing access, equitability, and rigor in the assessment of Neighborhood Mortgage Discrimination. Preprint available at [Research Square](#)

CONFERENCE PARTICIPATION

- **Waddel, H. B.**, Koelle, K., Lau, M. S. Y., “Scalable and robust mechanistic integration of epidemiological and genomic data for phylodynamic inference”, Oral Presentation, *Epidemics9*, Bologna, Italy, 2023
- **Waddel, H.B.**, Adler, F.A., “The Community Ecology of the Music Canon”, Poster, *National Conference on Undergraduate Research*, Edmond OK, USA, 2018
- **Waddel, H.B.**, Adler, F.A., “The Community Ecology of the Music Canon”, Poster, Utah Conference on Undergraduate Research, Cedar City UT, USA, 2018

HONORS AND AWARDS

- **First Place, Senior PhD Student Presentation Day** 2023
Emory University Department of Biostatistics
- **Scholarship** 2022
Summer Institute in Statistics and Modeling in Infectious Disease, U. of Washington
- **Gibson Senior Award** 2018
Department of Mathematics, University of Utah
- **Emeritus Librarian Scholarship** 2017
J. Willard Marriott Library, University of Utah
- **Pi Mu Epsilon Mathematics Honor Society** 2017
Department of Mathematics, University of Utah
- **National Merit Scholarship** 2013

GRANTS AND FELLOWSHIPS

- **Laney Graduate Fellowship** 2018
Laney Graduate School, Emory University
- **Independent Research Experience Undergraduate Grant (\$1,000)** 2018
Department of Mathematics and Department of Biology, University of Utah
Title: “The Community Ecology of the Music Canon”
- **Independent Research Experience Undergraduate Grant (\$2,000)** 2017
Department of Mathematics and Department of Biology, University of Utah
Title: “The Community Ecology of the Music Canon”
- **ORCA Undergraduate Student Mentoring Grant (\$1,500)** 2016
Office of Research and Creative Activities, Brigham Young University
Title: “Transcription Factor Interactions in Developing Hair Cells”
- **ORCA Undergraduate Student Mentoring Grant (\$1,500)** 2015
Office of Research and Creative Activities, Brigham Young University
Title: “Sensory Integration in Zebrafish Larvae”

TEACHING

Instructor

- Co-Instructor, Intro to Epidemiology and Biostatistics (HGC 707) Fall 2022
- SPSS Short Course (Part of HGC 740C) Summer 2022, 2023, 2024
- Statistical Methods I Lab (BIOS 500L) Fall 2020

Teaching Assistant

- Statistical Practice I (BIOS 580) Fall 2022, Fall 2023
- Biostatistical Methods II (BIOS 591P) Spring 2020-Spring 2024
 - Developed R software and recitation lesson plans to teach students linear and logistic regression methods

- Statistical Methods I Lab (BIOS 500L)

Fall 2019

Guest Lectures

- “Clean Code to Deal with Dirty Data”, BIOS 580 (Statistical Practice I), 2024
- “Introduction to the Command Line and the HPC Cluster”, EPI 790R (Doctoral Seminar in Epidemiologic Practice), 2024

SERVICE

- **Reviewer** 2023
Journal of the Royal Society Interface
- **Graduate Student Network executive committee** 2020-Present
National Institute of Statistical Sciences (NISS)
 - Founding member of the NISS Graduate Student Network with a mission to support the graduate students at NISS-affiliated academic departments throughout their graduate programs and in their early career
 - Planned and hosted quarterly events to support GSN’s mission including webinars, career fairs, panels, and networking socials
- **National Institute of Statistical Sciences (NISS) Graduate Student Research Conference** 2021-2024
Conference organizing committee
- **Archival Volunteer** 2021-2023
Computer Museum of America
 - Organizing and describing documentation and other textual materials which relate to the museum’s hardware and software collections
- **Student Council Representative** 2019-2022
Department of Biostatistics and Bioinformatics, Emory University
- **COVID-19 Geospatial support** 2020
Georgia Department of Public Health

TECHNICAL SKILLS

- **Programming and Software:** Advanced Proficiency in R, RShiny, R package development, and Rcpp; SAS. Intermediate Proficiency in Python; C++; Bash/Unix; SQL; and ArcGIS Software
- **Statistics:** Generalized linear models; spatial statistics; causal inference and observational studies via propensity score modeling and instrumental variables; survival analysis; meta-analysis; Bayesian hierarchical modeling; infectious disease modelling; time series analysis; probability theory; fitting Bayesian models via Markov Chain Monte Carlo using JAGS (Just Another Gibbs Sampler), or INLA (Integrated Nested Laplace Approximation)

AFFILIATIONS

- **American Statistical Association (ASA)**
- **International Biometric Society (IBS)**, Eastern North American Region (ENAR)
- **Association for Computing Machinery (ACM)**

OTHER

- **Society of Actuaries Exam P (Probability)** 2016