

1 of 3

2. O Sadan, **H Waddel**, R Moore, C Feng, Y Mei, D Pearce, J Kraft, C Pimentel, S Mathew, F Akbik, P Ameli, A Taylor, L Danyluk, K Martin, K Garner, J Kolenda, A Pujari, W Asbury, V Jaja, R L Macdonald, M Cawley, D Barrow, and O Samuels. “Intrathecal Nicardipine for Cerebral Vasospasm Post Subarachnoid Hemorrhage—a Retrospective Propensity-Based Analysis”, *Journal of Neurosurgery*, 2021. [PubMed Link](#)
3. B Nadel, D Lopez, D Montoya, **H Waddel**, M Khan, and M Pellegrini. “Gene Expression Deconvolution Interactive Tool (GEDIT): Accurate Cell Type Quantification from Gene Expression Data”. *Gigascience*, 2021. [PubMed Link](#)

POSTERS AND PRESENTATIONS

- **National Institute of Statistical Sciences (NISS) Graduate Student Research Conference** 2022
Presentation, “A Systematic Bayesian Integration of Epidemiological and Genetic Data” (Literature Review)
- **NISS Graduate Student Research Conference** 2021
Presentation, “Bayesian Inverse Reinforcement Learning for Collective Animal Movement” (Literature Review)
- **National Conference on Undergraduate Research** 2018
Poster, “The Community Ecology of the Music Canon”
- **Utah Conference of Undergraduate Research** 2018
Poster, “The Community Ecology of the Music Canon”
- **Bruins in Genomics Summer Research Experience** 2017
Poster, “Evaluating the Efficiency of Single-Cell Data in Cell-Type Deconvolution”
- **Utah Conference of Undergraduate Research** 2016
Poster, “Transcription Factor Interactions in Developing Hair Cells”

GRANTS

- **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”

SERVICE

- **Archival Volunteer** 2021-Present
Computer Museum of America
 - Organizing and describing documentation and other textual materials which relate to the museum’s hardware and software collections
- **Graduate Student Network executive committee** 2020-Present
National Institute of Statistical Sciences (NISS)
 - Founding member of the NISS Graduate Student Network
 - Our mission is to support the graduate students at NISS-affiliated academic departments throughout their graduate programs and in their early career
 - Planned bi-monthly events to support network’s mission including webinars, panels, and socials
 - Organized virtual conferences in 2021, 2022, and 2023 for graduate students at all stages of their degree to present research
- **Student Council Representative** 2019-2022
Department of Biostatistics and Bioinformatics, Emory University
- **COVID-19 Geospatial support** 2020
Georgia Department of Public Health
 - Assisted GPDH with management, cleaning, and analysis of anonymized location data to assess impacts of COVID-19 lockdowns in Georgia

| | |
|----------------------|---|
| HONORS AND AWARDS | <ul style="list-style-type: none"> • Scholarship 2022 Summer Institute in Statistics and Modeling in Infectious Disease, U. of Washington • Laney Graduate Fellowship 2018 Laney Graduate School, Emory University • 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 Finalist 2013 |
| | |
| | |
| | |
| | |
| | |
| TECHNICAL SKILLS | <ul style="list-style-type: none"> • Programming: Advanced Proficiency in R (and RShiny), SAS and Intermediate Proficiency in Python, C++, Bash, 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 |
| | |
| AFFILIATIONS | <ul style="list-style-type: none"> • American Statistical Association (ASA) • International Biometric Society (IBS), Eastern North American Region (ENAR) |
| | |
| OTHER | <ul style="list-style-type: none"> • Society of Actuaries Exam P (Probability) 2016 |