

MICHAEL THROOLIN

✉ michael.throolin@utah.edu 🌐 mthroolin.github.io in www.linkedin.com/in/mthroolin

SUMMARY

Biostatistics graduate student with interest in causal inference, machine learning, and missing data analysis. Experience programming in R, JAGS, Stan, Java, and C++, as well as the utilization of Git for version control. Fluent in Portuguese and conversational in Spanish.

EDUCATION

PhD Student - Biostatistics Expected Completion 2027
University of Utah

MS Statistics May 2023
Montana State University
Scholarships: Kenneth J. Tiahr and John L. Magaret Math Scholarships

BS Mathematics, Summa Cum Laude June 2016
Brigham Young University - Hawaii
Scholarships: Math Department, Recruitment, and Merit
Minor in Computer Science

EXPERIENCE

Research Assistant *August 2023 - Present*
University of Utah, Salt Lake City, UT
VA Medical Center, Salt Lake City, UT

- Atrial fibrillation research with the University of Utah.
- Kidney disease research with the VA.

Graduate Teaching Assistant *August 2021 - May 2023*
Montana State University, Bozeman MT

- TA for graduate course covering experimental design, Poisson log-linear regression, ANOVA, repeated measures, multivariate and time series analysis.
- Co-instructed an introductory course in statistics that covered inference, hypothesis testing, and regression.

Instructor *Summer 2022*
John's Hopkins Center for Talented Youth, Baltimore, MD

- Introduced paradoxes related to set theory, calculus, probability, topology, computer theory, cryptology, and game theory to a small group of high school students.

Volunteer- Math Club Coach *Oct. 2016- Feb. 2017*
Bellingham Family Partnership, Bellingham WA

- Developed activities in combinatorics, probability, algebra, number theory, game theory, and topology.

PUBLICATIONS

- Jacobson BT, DeWit-Dibbert J, Zanca L, Sonar S, Hardy C, **Throolin M**, Brewster P, Andujo K, Jones K, Sago J, Smith S, Bowen L, Bimczok D. Pathogen delivery route impacts disease severity in experimental *Mycoplasma ovipneumoniae* infection of domestic lambs. *Vet Res* 56, 10 (2025). <https://doi.org/10.1186/s13567-024-01439-y>
- Jacobson BT, DeWit-Dibbert J, Selong ET, Quirk M, **Throolin M**, Corona C, Sonar S, Zanca L, Schwarz ER, Bimczok D. Innovative Methodology for Antimicrobial Susceptibility Determination in *Mycoplasma* Biofilms. *Microorganisms*. 2024; 12(12):2650. <https://doi.org/10.3390/microorganisms12122650>