MICHAEL THROOLIN

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SUMMARY

Biostatistics graduate student with interest in causal inference, missing data analysis, and data visualization. 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 GPA 3.73

- Interest in causal inference, clinical trial randomization, machine learning, and Bayesian methods.

MS Statistics May 2023
Montana State University GPA 3.70
Scholarships: Kenneth J. Tiahrt and John L. Magaret Math Scholarships

- Master's paper: An Introduction to Directed Acyclic Graphs and Markov Equivalence.
- Worked with a controlled trial regarding infectious disease in sheep.

BS Mathematics, Summa Cum Laude June 2016
Brigham Young University - Hawaii GPA 3.96
Scholarships: Math Department, Recruitment, and Merit
Minor in Computer Science

- Researched probability models for rolling irregular dice and presented findings at undergraduate conference
- Developed a video game for Android phones

EXPERIENCE

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

- Aiding statistical analysis of a randomized controlled trial.
- Transitioning to a team focused on machine learning and causal inference.

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.