Taylor Grimm

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EDUCATION

Baylor University Waco, TX

Ph.D. in Statistics, Concentrations in Data Science and Biostatistics

Jul. 2021 - 2025 (Expected)

Advisor: Dr. Amanda Hering

Dissertation:

Graduate Assistant - Research

Baylor University Waco, TX

M.S. in Statistics, GPA: 3.94/4.00 Jul. 2021 – Dec. 2022

Brigham Young University Provo, UT

B.S. in Statistical Science, minor in Mathematics, GPA: 3.99/4.00 Aug. 2018 – Apr. 2021

EXPERIENCE

Baylor University

Jul. 2022 - Present

Waco, TX

- Building upon existing multivariate statistical process control methods to improve fault detection in complex

 Developed interactive R Shiny applications to assist in exploratory data analysis of multiple variables across several datasets.

Graduate Assistant - Statistical Consulting

Jan. 2022 – Jul. 2022

- Assisted clients across various disciplines in answering questions of interest using data.
- Adapted to different problems by studying and applying a variety of statistical methods to produce quality reports and insights.

Graduate Assistant - Data Science Workshop Development

Aug. 2021 – Dec. 2021

- Assisted in the development of a data science workshop (using R) for water/wastewater treatment industry professionals.
- Created practice problems and solutions for various topics ranging from data wrangling and visualization to statistical and machine learning models.

Brigham Young University

Provo, UT

Statistics Research Assistant

Jun. 2020 - May 2021

- Built and used Bayesian multivariate receptor models (using R and Stan) to analyze and understand noisy environmental data.
- Produced useful visualizations with the ggplot2 and ggmap packages in R.
- Read dozens of relevant publications and research papers to glean information for research.
- Regularly communicated and discussed results and findings.

PEER-REVIEWED PUBLICATIONS

[1] M. Heiner, **T. Grimm**, H. Smith, S. D. Leavitt, W. F. Christensen, G. T. Carling, and L. L. St. Clair, "Multivariate receptor modeling with widely dispersed lichens as bioindicators of air quality", *Environmetrics*, vol. 34, no. 3, e2785, 2023. DOI: https://doi.org/10.1002/env.2785.

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RESEARCH EXPERIENCE AND INTERESTS

- Multivariate statistics
- Time series
- Machine learning

Presentations

- Student Research Conference: Bayesian Multivariate Receptor Modeling with Lichens as Biomonitors, Brigham Young University, Provo, UT. (February 2021)
- Southern Regional Council on Statistics: Nonparametric Threshold Estimation of Autocorrelated Statistics in Multivariate Statistical Process Monitoring, Baylor University, Waco, TX. (June 2023) †

†: poster

• Advanced: R

Computer Skills

COMI CIENCETRIEES

- tidyverse (dplyr, ggplot2, etc.),
 Keras (TensorFlow), RMarkdown, rstan, rjags
- Proficient: LATEX, Git/GitHub
 Working Knowledge: SAS, Python
 - pandas, numpy, scikit-learn

LANGUAGES

English: NativeTagalog: Advanced

SCHOLARSHIPS AND AWARDS

•	Outstanding 1st Year PhD Student (Department of Statistical Science, Baylor University)	2021-2022
•	Graduate School Fellowship (Baylor University)	2021
•	Academic Scholarship — Brigham Young and Wessell/Marshall Memorial (Brigham Young University)	2018 – 2021
•	Eagle Scout (Boy Scouts of America)	2015

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