Suzanne Thornton, PhD

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Summary

A statistical researcher with over four years of college-level teaching experience who is eager to transition into a profession of practice. Proven leadership skills both within and outside of academia. Strong statistical theorist and programmer with excellent communication abilities. A longer CV is available at: https://dr-suz.github.io/portfolio.html

Work Experience

National Institute of Standards and Technology PREP Postdoctoral Assistant *Jan 2024 – Present*
George Washington University Washington D.C.

- Publication in progress: A Bayesian Solution to Non-standard Measurement Error in Linear Regression

Assistant professor of statistics *Sept 2020 – Dec 2023*
Swarthmore College Swarthmore, PA

- Published two original technical papers for a statistics journal and a philosophy of science journal.
- Published three chapters for two separate statistics books.

Special government employee *Aug 2022 – Dec 2023*
US Census Bureau National Advisory Committee on Racial, Ethnic, and Other Populations Washington, D.C.

- Advocated for careful consideration of the collection and analysis of categorical data and for ethical data collection and analysis practices.

Visiting assistant professor of statistics *Oct 2019 – Aug 2020*
Swarthmore College Swarthmore, PA

- Published several non-technical statistical papers in Significance Magazine and AMSTAT News regarding inclusion of LGBT+ populations in statistics and data science.

Statistical consultant *Sept 2016 – Aug 2019*
Office of Statistical Consulting, Rutgers University New Brunswick, NJ

- Published "Development and validation of a predictive model of drug-resistant genetic generalized epilepsy" in *Neurology* as a result of work with a client at Robert Wood Johnson Hospital.
- Published "Exact inference on the random-effects model for meta-analyses with few studies" in *Biometrics* while working with several consulting clients.

Education

Rutgers, The State University of New Jersey *Oct 2019*
Doctor of Philosophy in Statistics and Biostatistics New Brunswick, NJ

Thesis: Advanced computing methods for statistical inference

University of Florida *May 2014*
Bachelor of Science in Mathematics and in Statistics Gainesville, FL

Thesis: Geometric ergodicity of Gibbs sampler for a hierarchical random effects model: Re-explained

Statistical expertise

- Bayesian
- Frequentist
- Meta-analysis
- Categorical data
- Cross validation
- Bootstrap
- Markov chain Monte Carlo
- Gibbs sampling
- Time series
- Measurement error models
- Generalized linear models (including multlivariate, logistic, and random effects models)

Programming

- R[1]
- RMarkdown[1]
- Stan[2]
- Parallel computing[2]

Tools and Software

[1] Expert

- Command Line/Linux[2]
- SQL[3]
- Python[3]
- MS Office[1]

OTHER

- Statistical modeling[1]
- Data visualization/analysis[1]
- Academic writing[1]
- Non-technical writing[1]
- LateX[1]
- Git[2]

[2]Proficient
[3]Advanced beginner