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.

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

- Predictive modeling
- Categorical data analysis
- Cross validation
- Regression modeling
- Meta-analysis
- Time series analysis
- Measurement error models
- Computational inference
- Ethical practice
- Markov chain Monte Carlo
- Random effects models
- Gibbs sampling

Programming

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

Tools and Software

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

[1] Expert
[2] Proficient
[3] Advanced beginner

OTHER

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