Suzanne Thornton, PhD

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Summary

Experienced professional statistical researcher transitioning to a profession of practice. Proven leadership skills. Strong statistical theorist and programmer with excellent communication abilities.

Work Experience

National Institute of Standards and Technology PREP Research Scientist *Jan 2024 – Present*
George Washington University, Department of Engineering Washington D.C.
- Methods/models: Bayesian measurement error model, imputation for time series with gaps, text-based generative AI detection (theory)
- Software: R, R Markdown, Stan, Python, vscode, terminal, git
- Platform: Mac, LINUX
- Other: Co-authored two (successful) NIST grant proposals

Assistant professor of statistics *Sept 2020 – Dec 2023*
Swarthmore College Swarthmore, PA
- Methods/models:
- Software: R, R Markdown, terminal, git
- Platform: Mac
- Other: Published/implemented ethical stats training in introductory and advanced stats classes, Published in Philosophy of Science

Special government employee *Aug 2022 – Dec 2023*
US Census Bureau National Advisory Committee on Racial, Ethnic, and Other Populations Washington, D.C.
- Methods/models: Government statistics, survey data strategy and implementation
- Other: Interdisciplinary collaboration and engagement with user feedback

Visiting assistant professor of statistics *Oct 2019 – Aug 2020*
Swarthmore College Swarthmore, PA
- Methods/models:
- Software: R, R Markdown, TeX
- Platform: Mac
- Other: Designed and taught successful hybrid statistics courses, implemented ethical stats training in introductory stats classes

Statistical consultant *Sept 2016 – Aug 2019*
Office of Statistical Consulting, Rutgers University New Brunswick, NJ
- Methods/models: Predictive modeling,
- Software: R
- Platform: Mac, Windows
- Other: Co-authored publication in *Neurology* with MD from at Robert Wood Johnson Hospital

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
Methods/models: Approximate Bayesian computing, confidence distribution inference, algorithmic development
Software: R, TeX
Platform: Mac, Windows
Other: Parallel computing, taught SAS course
Publication: Exact inference on the random-effects model for meta-analyses with few studies
Methods/models: Random effects, meta-analysis,
Software: R, TeX
Platform: Mac

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
Methods/models: Markov chain Monte Carlo, Gibbs Sampling, Bayesian hierarchical random effects model
Software: TeX
Platform: Windows