

SUZANNE THORNTON, PhD

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SUMMARY

Experienced statistical researcher and educator 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)
- Other: Co-authored two (successful) NIST grant proposals

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, nominated volunteer advisor

Assistant Professor of Statistics Sept 2020 – Dec 2023
Swarthmore College Swarthmore, PA

- Methods/models taught: mathematical statistics, regression, univariate analyses, data visualization
- Other: Published/implemented ethical reasoning in introductory and advanced stats classes, published in Philosophy of Science

Visiting Assistant Professor of Statistics Aug 2019 – Aug 2020
Swarthmore College Swarthmore, PA

- Methods/models taught: regression, univariate analyses, data visualization
- Other: Designed and taught successful hybrid statistics courses

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

- Methods/models: Predictive modeling, case-control studies, cross validation, exact inference, goodness-of-fit, bootstrap optimism-corrected AUC
- 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, bootstrapping
 - 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, exact (small sample) 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
- Methods/models: Markov chain Monte Carlo, Gibbs Sampling, Bayesian hierarchical random effects model
 - Platform: Windows

SOFTWARE AND PLATFORMS

- Linux, Mac, Windows
- Git, GitHub, GitLab
- LaTeX
- R, RMarkdown, RStudio, Stan
- Microsoft Office, VScode
- Python