

# 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)
- Other: Co-authored two (successful) NIST grant proposals

**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

**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** 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

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