

# 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

George Washington University

Jan 2024 – Present

Washington D.C.

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

### Assistant professor of statistics

Swarthmore College

Sept 2020 – Dec 2023

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

US Census Bureau National Advisory Committee on Racial, Ethnic, and Other Populations

Aug 2022 – Dec 2023

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

Swarthmore College

Oct 2019 – Aug 2020

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

Office of Statistical Consulting, Rutgers University

Sept 2016 – Aug 2019

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

Doctor of Philosophy in Statistics and Biostatistics

Oct 2019

New Brunswick, NJ

Thesis: Advanced computing methods for statistical inference

### University of Florida

Bachelor of Science in Mathematics and in Statistics

May 2014

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 multivariate, logistic, and random effects models)

## PROGRAMMING

- R<sup>1</sup>
- RMarkdown<sup>1</sup>
- SAS/STAT<sup>2</sup>
- Stan<sup>2</sup>
- Parallel computing<sup>2</sup>

## TOOLS AND SOFTWARE

<sup>1</sup>Expert

- Command Line/Linux<sup>2</sup>
- SQL<sup>3</sup>

- Tableau<sup>3</sup>
- Python<sup>3</sup>

- MS Office<sup>1</sup>

## OTHER

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- Statistical modeling<sup>1</sup>
- Data visualization/analysis<sup>1</sup>

- Academic writing<sup>1</sup>
- Non-technical writing<sup>1</sup>

- LaTeX<sup>1</sup>
- Git<sup>2</sup>

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<sup>2</sup>Proficient

<sup>3</sup>Advanced beginner