

# 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

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

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

## PROGRAMMING

- |                  |                          |                     |
|------------------|--------------------------|---------------------|
| – R <sup>1</sup> | – RMarkdown <sup>1</sup> | – Stan <sup>2</sup> |
|------------------|--------------------------|---------------------|

## TOOLS AND SOFTWARE

- |                                   |                          |
|-----------------------------------|--------------------------|
| – Command Line/Linux <sup>2</sup> | – Python <sup>3</sup>    |
| – SQL <sup>3</sup>                | – MS Office <sup>1</sup> |

<sup>1</sup>Expert

<sup>2</sup>Proficient

<sup>3</sup>Advanced beginner

## 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>