Suzanne M. Thornton

CONTACT INFORMATION	500 College Ave Department of Mathematics & Statistics Swarthmore College Swarthmore, PA 19081 USA	*Voice:* (610) 690-6857 *E-mail:* sthornt1@swarthmore.edu http://www.swarthmore.edu/suzanne-thornton

RESEARCH INTERESTS

Statistical computing, foundations of statistical inference, ethical statistical practice, science communication.

EDUCATION

Rutgers, The State University of New Jersey, Piscataway, New Jersey USA

Ph.D. Statistics, October 2019
Thesis: Advanced computing methods for statistical inference

University of Florida *Suma Cum Laude*, Gainesville, Florida USA

B.S., Statistics, May, 2014
B.S., Mathematics, May, 2014

PEER REVIEWED PUBLICATIONS

Approximate confidence distribution computing. (2022)
Thornton Suzanne, Wentao Li, and Minge Xie. *N Engl J Stat Data Sci.* (submitted)

Bridging Bayesian, frequentist and fiducial inferences using confidence distribution. (2022+)
Thornton, Suzanne. and Xie, Minge. In *Handbook on Bayesian, Fiducial and Frequentist (BFF) Inferences.* (co-editors: Berger, J.O., Meng, X.L., Reid, N. & Xie, M.) Chapman & Hall, New York. (forthcoming)

Development and validation of a predictive model of drug-resistant genetic generalized epilepsy. (2020)
Hyunmi Choi, MD, MS, Kamil Detyniecki, MD, Carl Bazil, MD, PhD, Suzanne **Thornton**, PhD, *et mult. al. Neurology.*

Exact Inference on the Random-Effects Model for Meta-Analysis with Few Studies. (2019)
Haben Michael, Suzanne **Thornton**, Minge Xie, and Lu Tian. *Biometrics.*

PUBLICATIONS

The JEDI Corner (June 2022)
Thornton, Suzanne. *AMSTAT News.*

Towards best practices for collecting gender and sex data. (Feb 2022)
Thornton Suzanne, Dooti Roy, Stephen Parry, Donna LaLonde, Wendy Martinez, Renee Ellis, David Corliss. *Significance Magazine.*

Friends and allies: LGBT+ inclusion in statistics and data science. (June 2019)
Thornton Suzanne, Brittany Green, and Emma Benn. *Significance Magazine.*

LGBT+ resources for statisticians and data scientists. (May 2019)
LaLonde Donna, Wendy Martinez, Jack Miller, Miles Ott, and Suzanne **Thornton**. *Significance Magazine Online.*

HONORS AND AWARDS (SELECTED)

Spencer Large Research Grant[1] (applied)	2022
Dubai Cares and INEE E-Cubed Grant[1] (applied)	2021
LANG Center Faculty-led Engaged Research Grants	2021, 2022
Nominated for National Advisory Committee on Racial, Ethnic, and Other Populations (U.S. Census Bureau)	2022

Rutgers Presidential Fellowship	2015-2019
ICSA Student Paper Winner	2018
Rutgers Professional Development Fund	2017, 2018
NESS Student Paper Winner	2017
Deming Scholar Award	2016
Rutgers Excellence Fellowship	2015

PRESENTATIONS (SELECTED)

Topic Contributed Speaker. Sex and gender: Data quality and ethical considerations for statisical analyses. Joint Statistical Meeting. Washington, D.C. August 2022

Invited panelist. Facing Organizational and Ethical Considerations Resulting from COVID-19. Conference on Statistical Practice. Virtual, February 2021

Topic contributed panelist. Balderdash, Codswallop, and Malarkey. Joint Statistical Meeting. Virtual, August 2020.

Invited speaker. Statistical computing with confidence distributions. Villanova University, Villanova, PA, December, 2019.

Invited speaker. Statistical computing with confidence distributions. Icahn School of Medicine at Mount Sinai, New York City, NY, April, 2019.

Topic contributed panelist & organizer. Conference Within a Conference: A Forum for Sharing a Research and Education Agenda. Women in Statistics and Data Science Conference. Bellevue, WA, October, 2019.

Topic contributed panelist & organizer. Changing the Statistics Community: Effective Strategies for Promoting an Inclusive and Equitable Culture for Women. Joint Statistical Meeting. Denver, CO, August, 2019.

Topic contributed panelist & organizer. Preparing for Increased Gender Diversity and Inclusion in Statistics and Data Science: Important Perspectives from Gender Non-Conforming and LGBTQ Scholars. Women in Statistics and Data Science Conference. La Jolla, CA, October, 2018.

Session speaker. Approximate Confidence Distribution Computing. Joint Conference on Biometrics & Biopharmaceutical Statistics, Vienna, Austria, September, 2017.

Invited poster. Introducing Approximate Confidence Distribution Computing. 72nd Annual Deming Conference on Applied Statistics, Atlantic City, NJ, December, 2016.

Invited speaker. Introduction to Common Statistical Methods. Rutgers Center for Cell Biology and Neuroscience Weekly Seminar, Piscataway, NJ, 2016.

Poster presentation. Approximate Confidence Distribution Computing. Third Annual Bayesian, Frequentist, Fiducial Workshop, Piscataway, NJ, 2016.

EDUCATIONAL EXPERIENCE

Teaching
Developed and evaluated coursework, delivered lessons, and mentored students.

Statistical Methods I (S'20, F'21)
Swarthmore College

Strengthening Conceptual Understanding in Introductory Statistics Courses
DANA Center at University of Texas Austin   (S'21, S'22)

Statistical Methods II   (F'20, F'19, S'21, S'22)
Swarthmore College

Regression Analysis (combined graduate/undergraduate)   (F'17, S'15)
Rutgers University

Undergraduate Research and Advising

QSIDE Datathon4Justice   Fall 2021
Faculty participant

Math/Stat minor Advisor   2020 - 2021
Swarthmore College

Student research mentoring

1. *Shikha Shrestra*   Summer 2022

    LANG Center Faculty-led Engaged Research Assistant

2. *Harron Mwangangi Kalii*   2021-2022

    Education in Conflict Research Group[1]

3. *Nancy Vu*   2021-2022

    Education in Conflict Grant Proposal Research Group[1]

4. *Nancy Vu*   Summer 2021

    LANG Center Faculty-led Engaged Research Assistant
    Sigma-Xi Poster Presentation

5. *Xoe Porterfield*   Summer 2019

    Guided lit review for survey methodology for gender and sex minorities

Miscellaneous

Intercultural Center Cultural Competency Workshop   2020
Swarthmore College

Advocating for Students of Color: There's More You Can Do   2021
American Mathematical Society

Statistical Consultant (part-time)   2015 - 2019
Rutgers University

General

Education Council Officer   August, 2020 - Present
ISOSTAT representative

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[1]Interdisciplinary research with Prof. Amy Kapit of Peace and Conflict Studies.

USPROC Judge February 2020
Project evaluator

International Mathematical Statistics Association Spring, 2021
Watercooler chat participant

Justice, Equity, Diversity, and Inclusion (JEDI) Organizing Group, American Statistical Association August, 2020 - Present
Communications Committee Chair

Presidential initiative working group, American Statistical Association 2020
Leader and organizer

LGBT+ Diversity Town Hall, Joint Statistical Meeting August, 2019
Leader and organizer.

Swarthmore

Swatisticians Coffee Hour	Spring 2021
Colloquium chair	2021-2022
Hiring committee	Spring 2020 - Present
Faculty advisor for Gender Minorities in Math/Stats (GeMs)	2020-2021
LACOL Faculty Advisory Council	2020 - 2022
Math/Stat Placement Committee	Summer 2020

Rutgers

Graduate Student Association (GSA) Vice President	September, 2017 - May, 2018
University Senate, Graduate Student Representative	September, 2016 - May, 2017

PROFESSIONAL ASSOCIATIONS
- Institute for the Quantitative Study of Inclusion, Diversity, and Equity (QSIDE)
- International Mathematical Statistics Association (IMS)
- American Statistical Association (ASA)

COMPUTER SKILLS
- Statistical Packages: R (including parallel, tidyverse, RMarkdown), SAS, Minitab, SPSS
- Languages: C++, Markdown, Python.
- Applications: LaTeX, spreadsheet.
- Operating Systems: Mac, Windows.