

Maria Tackett

Assistant Professor of the Practice
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Education

Ph.D. in Statistics 2013 - 2018
University of Virginia

- Dissertation: *Creating Fingerprint Databases and a Bayesian Approach to Quantify Dependencies in Evidence*
- Advisor: Dan Spitzner

M.S. in Statistics 2009 - 2010
University of Tennessee-Knoxville

B.S. in Mathematics 2005 - 2009
University of Tennessee-Knoxville

Academic Appointments

Assistant Professor of the Practice 2018 - present
Duke University, Department of Statistical Science

Teaching Experience

Duke University

- STA 199: Intro to Data Science Fall 2019, Spring 2019
- STA 210: Regression Analysis Fall 2019, Spring 2019, Fall 2018

University of Virginia

- STAT 1100: An Introduction to Statistics Spring 2018, Fall 2017,
Spring 2017, Fall 2016, Spring 2016, Fall 2015, Summer 2015
- STAT 2120: Introduction to Statistical Analysis Summer 2017, Summer 2016

Virginia Commonwealth University

- SLWK 609: Foundations of Research in Social Work Practice Spring 2017

University of Tennessee-Knoxville

- STAT 201: Introduction to Statistics Fall 2010, Spring 2010

Invited Talks

1. *Panel: Reproducible Research - Education and Practice.* Duke Center for Data and Visualization Sciences. Durham, NC. November 2019.

2. *My Journal in Statistics*. FEMMES Hacks Conference. Durham, NC. November 2019. (Keynote)
3. *Statistics in Practice*. FOCUS Cluster Dinner Series at Duke University: What if? Explaining the Past/Predicting the Future. Durham, NC. November 2019.
4. *Beyond the Buzzword: A Look at Data Science in Practice and How You Can Be a Part of It*. SAMSI Diversity in Data Science and Machine Learning Conference. Washington, DC. October 2019. (Plenary talk)
5. *Panel: Women in Machine Learning and Data Science*, Duke Machine Learning Day. Durham, NC. March 2019.
6. *Panel: Women in Industry*. Duke University Business Oriented Women Meeting. Durham, NC. September 2018.

Presentations & Posters

1. *Using GitHub and RStudio to Facilitate Authentic Learning Experiences in a Regression Analysis Course*. Women in Statistics and Data Science Conference. Bellevue, WA. October 2019.
2. *Using GitHub and RStudio to Facilitate Authentic Learning Experiences in a Regression Analysis Course*. Joint Statistical Meeting. Denver, CO. July 2019.
3. *Using GitHub and RStudio to Facilitate Authentic Learning Experiences in a Regression Analysis Course*. United States Conference on Teaching Statistics. State College, PA. May 2019. (Poster)
4. *Panel: Teaching Large Classes in Statistics Using Active Learning Spaces*. Innovation in Pedagogy Summit. Charlottesville, VA. May 2016.
5. *Clustering High-Dimensional Categorical Data Using a Bayesian Finite Mixture Model*. Quantitative Collaborative Fellows Poster Session. Charlottesville, VA. April 2017. (Poster)
6. *Understanding Variability Between Groups of Sequences Using a Bayesian Object-Oriented Data Model*. Joint Statistical Meeting. Seattle, WA. August 2016.
7. *Understanding Object-Oriented Data Using Optimal Matching*. Quantitative Collaborative Fellows Poster Session. Charlottesville, VA. April 2015. (Poster)

University & Department Service

Trinity Arts & Sciences Committee on Curriculum, 2019 - present

ASA [DataFest@Duke](#) Organizer, 2019 - present

Statistical Science Undergraduate Curriculum Committee, 2019 - present

Statistical Science Master's Student Advisor, 2019 - present

Statistical Science Undergraduate Major Advisor, 2018 - present

Statistical Science Committee on Departmental Code of Conduct, 2019

Females Excelling More in Math, Engineering, & Science (FEMMES) Capstone, 2019

Statistical Science Master's Program Admissions Committee, 2019

Duke Datathon Judge, 2018

Service to Profession

Column editor for “Taking a Chance in the Classroom” column in *CHANCE Magazine*, 2019 - present

ASA Section on Statistics and Data Science Education, Communications Officer Elect, 2019 (Term: 2020 - 2022)

Reviewer for *Journal of Statistics Education*, 2019 - present

CAUSE Undergraduate Statistics Research Project Competition Judge, 2019

ASA Section on Bayesian Statistical Science Student Paper Competition Review Committee, 2019

Mentoring

1. Lavonne Hoang, Work Study, Fall 2019 - Spring 2020
2. Caroline Levenson, Independent Study, Fall 2019
3. Faculty Mentor for Duke SPIRE Fellows, 2019 - present

Grants & Fellowships

Jump Start Grant, Learning Innovation, Duke University, 2019

National Science Foundation. *Collaborative Research: Accelerating the Pace of Research and Implementation of Writing-to-Learn Pedagogies Across STEM Disciplines* Role: Key Faculty, 2018 - 2020

Active Learning Fellows, Learning Innovation, Duke University, 2019 - 2020

Course Design Institute Fellowship, University of Virginia, 2016

Professional Experience

Senior Statistician

2013

Capital One, Richmond, VA

Developed the first generation of statistical models to perform deposit forecasts for Capital One Bank.

Statistician

2011 - 2012

Capital One, Richmond, VA

Designed experiments for mail marketing campaigns in Capital One Bank.

Professional Memberships

American Statistical Association

National Math Alliance

Center for Statistics and Applications in Forensic Evidence (2017 - 2019)