Maria Tackett

Assistant Professor of the Practice
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Education

Ph.D. in Statistics   2018
University of Virginia

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

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

Academic Appointments

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

Teaching (selected)

Duke University

STA 199: Introduction to Data Science & Statistical Thinking	Fall 2021, Fall 2020, Fall 2019, Spring 2019
STA 210: Regression Analysis	Fall 2023, Fall 2022, Fall 2021, Spring 2021, Fall 2020, Spring 2020, Fall 2019, Spring 2019, Fall 2018
STA 310: Generalized Linear Models	Spring 2024, Spring 2022

Publications (selected)

1. **Tackett, M.** (2023). Three Principles for Modernizing an Undergraduate Regression Analysis Course. *Journal of Statistics and Data Science Education*, 31(2), 116-127. doi.org/10.1080/26939169.2023.2165989

2. Noll, J., **Tackett, M.** (2023). Insights from DataFest Point to New Opportunities for Undergraduate Statistics Courses: Team collaborations, Designing Research Questions, and Data Ethics. *Teaching Statistics*, 45(S1), S5-S21. doi.org/10.1111/test.12345

3. **Tackett, M.**, Viel, S., Manturuk, K. (2023). A validation of the short-form classroom community scale for undergraduate mathematics and statistics students. *Journal of University Teaching & Learning Practice*, 20(1). doi.org/10.53761/1.20.01.08

4. Beckman, M. D., Çetinkaya-Rundel, M., Horton, N. J., Rundel, C. W., Sullivan, A. J., **Tackett, M**. (2020). Implementing version control with Git and GitHub as a learning objective in statistics and data science courses. *Journal of Statistics Education*, 29(1), 132-144. doi.org./10.1080/10691898.2020.1848485

Invited Talks (selected)

1. Tackett, M. *More than methods: Preparing students for data-driven work outside the classroom.* CANSSI Applied Research Education seminar. Toronto, ON. April 2024.

2. Tackett, M. *Three principles for modernizing an undergraduate regression analysis course.* Teaching Statistics Section seminar. Royal Statistical Society. Online. February 2024.

3. Tackett, M. *Communication as a learning objective in an intermediate statistics course.* Teaching and Evaluating Data Communication At Scale. Institute for Mathematical and Statistical Innovation. Chicago, IL. January 2024.

4. Tackett, M. *Teaching intro data science.* Preparing to Teach Workshop. George Mason University. August 2022.

5. Tackett, M. *Knit, Commit, and Push: Teaching version control in undergraduate statistics courses.* Toronto Workshop on Reproducibility. Online. February 2022.

6. Tackett, M. *Making remote lectures active and inclusive in a large undergraduate course.* Teaching Statistics Teaching and Learning Statistics Online. Online (Royal Statistical Society Teaching Statistics Special Interest Group). July 2020.

7. Tackett, M. *My Journey in Statistics.* FEMMES Hacks Conference. Durham, NC. November 2019. (Keynote)

8. Tackett, M. *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)

Grants & Fellowships (selected)

National Science Foundation. *Achieving Critical Transformations in Undergraduate Programs in Mathematics (ACT UP MATH)*, 2022 - 2025, Role: Duke Site Co-PI, $237,749.

Duke Learning Innovation's Carry the Innovation Forward Fund. *Building Community and Self-Efficacy Through Inclusive Teaching Practices*, 2021 - 2023, Role: Co-PI, $4,616.

Duke Bass Connections - Brain & Society. *Mental Health and the Justice System in Durham*, 2020 - 2024, Role: Co-PI, $14,200 each academic year.

Duke Data+. *Mental Health and the Justice System in Durham.* 2020 - 2024, Role: Co-PI, $17,500 each year.

Service to Profession (selected)

Bill & Melinda Gates Foundation High School Math Pathways Advisory Group, 2023 - present

ASA/MAA Joint Committee on Undergraduate Statistics and Data Science Education, 2022 - present

Bill & Melinda Gates Foundation Statistics Courseware Advisory Group, 2022 - present