Sean M. Tomlin

Ph.D. Candidate · Interdisciplinary Ph.D. Program in Biostatistics

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Education ____

The Ohio State University

Columbus, OH

DOCTOR OF PHILOSOPHY IN BIOSTATISTICS

Aug. 2020 - present

- Advisor: Bo Lu, Ph.D.
- Dissertation (tentative title): "Estimating causal effects from observational data in quasi-experimental designs"
- Expected August 2025
- Skills: Causal inference; propensity scores; observational data; quasi-experimental methods; panel data; difference-in-differences; policy evaluation; complex survey design; constrained optimization.

The Ohio State University

Columbus, OH

MASTER OF SCIENCE IN STATISTICS

Aug. 2020 - May 2022

Wright State University

Dayton, OH

BACHELOR OF SCIENCE IN STATISTICS

Aug. 2016 - May 2020

- Minor in Mathematics
- Summa cum Laude with Honors

Positions and Scientific Appointments _____

2024-2025	Dissertation Year Fellow, Division of Biostatistics, The Ohio State University
2023-2024	Graduate Research Associate, College of Public Health, The Ohio State University
2020-2023	Graduate Fellow, Division of Biostatistics, The Ohio State University
2020	Research Intern , Hypersonic and Airbreathing Propulsion Branch, Research Directorate, National Aeronautics
	and Space Administration, Langely Research Center, Hampton, VA
2019	Statistician Intern, Scientific Test & Analysis Techniques Center of Excellence, Air Force Institute of Technology,
	Wright-Patterson Air Force Base, OH

Publications __

WORKING PAPER

Tomlin, Sean, Lu, Bo. 2025+. Counterpart Statistics in the Matched Difference-in-Differences Design. (*Draft version available upon request; currently preparing for journal submission*).

Honors and Awards _____

Aug 2024	Student Travel Award, Survey Research Methods Section, American Statistical Association
2022-2023	College of Public Health Fellowship, College of Public Health, The Ohio State University
2020-2022	Susan Huntington Dean's Distinguished University Fellowship, The Ohio State University
2020	University Honors Scholar, Wright State University
2016-2020	Competitive Honors Scholarship, Wright State University
2016-2020	Valedictorian Scholarship, Wright State University

Presentations _____

CONTRIBUTED PRESENTATIONS

- **Tomlin, S.** (Upcoming) 2025. Counterpart Statistics in the Matched Difference-in-Differences Design. Poster presentation: American Causal Inference Conference, Detroit, MI, 2025
- **Tomlin, S**. 2025. Revisiting Covariate Adjustment in Parametric Difference-in-Differences. Oral presentation: ENAR Spring Meeting 2025, New Orleans, LA.
- **Tomlin, S.** 2024. On the Matched Difference-in-Differences Design with Counterparts. Speed presentation and poster: Golden Anniversary Celebration of the Department of Statistics, The Ohio State University
- **Tomlin, S.** 2024. Revisiting the Design and Analysis of Parametric Difference-in-Differences. Departmental poster session: Department of Statistics and Division of Biostatistics, The Ohio State University
- **Tomlin, S**. 2024. On the Matched Difference-in-Differences Design with Counterparts. Oral presentation: Joint Statistical Meetings Portland, Oregon.
- **Tomlin, S**. 2023. Matching Designs for Causal Inference in Health Policy Evaluation. Oral presentation: Research Day, College of Public Health, The Ohio State University.
- **Tomlin, S.** 2023. Negative Control Adaptive Randomization Inference for Matched Observational Studies. Departmental poster session: Department of Statistics and Division of Biostatistics, The Ohio State University

Grant Application _____

NIH F31 Pre-doctoral Fellowship, "Causal inference for policy evaluations with

Apr 2023 individual-level survey data: Estimating the impact of Tobacco 21 policies on adolescent smoking behavior," not funded.

Mentoring_____

Jul 2024 Syad Rafey (Kenyon College), Ohio Five Summer Undergraduate Research Experience

Jul 2023 Lynn Nguyen (Denison University), Ohio Five Summer Undergraduate Research Experience

Research Experience _____

The Ohio State University - Division of Biostatistics

Columbus, OH 2021 - Present

Advisor: Bo Lu, Ph.D.

• Dissertation (in progress)

Wright State University - Dept of Mathematics and Statistics

ADVISOR: YANG LIU, PH.D.

Dayton, OH 2019-2020

• Thesis: "Feature selection of survival genes in The Cancer Genome Atlas"

Development _____

SERVICE AND OUTREACH

2023-2024 Statistics and Biostatistics Graduate Student Association, President

2023-2024 Peer Mentor Program (Statistics and Biostatistics Graduate Student Association), Mentor

2023-2024 Ohio Five OSU SURE, Journal Club Leader

2023-2024 Ohio State Science Fair, Volunteer Judge

2023-2024 ASA DataFest Ohio State University, Volunteer

PEER REVIEW

Annals of Applied Statistics (referee); Observational Studies (referee)

PROFESSIONAL MEMBERSHIPS

American Statistical Association, 2022-present; ENAR, 2024-present; Society for Causal Inference, 2025.