

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

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

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

Dayton, OH
2019-2020

ADVISOR: YANG LIU, PH.D.

- 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.