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: R; Python; 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

Apr 2023	**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.

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*
ADVISOR: BO LU, PH.D.   *2021 - Present*
- Dissertation (in progress)

Wright State University - Dept of Mathematics and Statistics   *Dayton, OH*
ADVISOR: YANG LIU, PH.D.   *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.