

# GARY HETTINGER, PhD

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## EDUCATION

<b>University of Pennsylvania</b> <i>Doctor of Philosophy, Biostatistics</i> <i>Advisor: Dr. Nandita Mitra</i>	Philadelphia, PA 2020 – 2025
<b>University of Pennsylvania</b> <i>Master of Science, Biostatistics</i> <i>Advisor: Dr. Qi Long</i>	Philadelphia, PA 2020 – 2022
<b>Brown University</b> <i>Bachelor of Science, Applied Math-Computer Science</i>	Providence, RI 2013 – 2017

## PROFESSIONAL EXPERIENCE

<b>Assistant Professor of Biostatistics</b> , Department of Population Health <i>New York University Grossman School of Medicine</i>	New York, NY 2025–present
<b>Associate Fellow</b> , Leonard Davis Institute for Health Economics <i>University of Pennsylvania</i>	Philadelphia, PA 2022–2025
<b>Associate Data Scientist</b> , R&D Content and Viewership Team <i>Xandr</i>	New York, NY 2019 – 2020
<b>Data Science Software Engineer</b> , Bid Logic Optimization Team <i>AppNexus (Xandr)</i>	New York, NY 2018 – 2019
<b>Software Engineering Intern</b> , Development Operations Team <i>AppNexus</i>	New York, NY 2017
<b>Technology Development Intern</b> <i>Optum Technology</i>	Boston, MA 2016

## Peer-Reviewed Publications

1. Joshua Petimar, Laura A Gibson, Mark S Wolff, Nandita Mitra, Patricia Corby, **Gary Hettinger**, Emily F Gregory, Emma Edmondson, Jason P Block, Christina A Roberto.  
“Changes in dental outcomes after implementation of the Philadelphia beverage tax.” *American Journal of Preventive Medicine* (2023)
2. **Gary Hettinger**, Nandita Mitra, Stephen R Thom, David J Margolis.  
“An Improved Clinical and Genetics-Based Prediction Model for Diabetic Foot Ulcer Healing.” *Advances in Wound Care* (2024)
3. Shazia M Siddique, **Gary Hettinger**, Anwesh Dash, Mark Neuman, Nandita Mitra, James D Lewis.  
“The Role of Hospital Characteristics in Clinical and Quality Outcomes for Gastrointestinal Bleeding in a National Cohort.” *American Journal of Gastroenterology* (2024)

4. **Gary Hettinger**, David Rubin, Jing Huang.  
 “Refining Estimation of the Instantaneous Reproduction Number During Early Pandemic Stages: Addressing Case-Reporting Variability and Serial Interval Uncertainty.” *American Journal of Epidemiology* (2024)
5. Emily F Gregory, Christina A Roberto, Nandita Mitra, **Gary Hettinger**, Emma Edmondson, Joshua Petimar, Jason P Block, Laura A Gibson.  
 “The Philadelphia Beverage Tax and Pediatric Weight Outcomes.” *JAMA Pediatrics* (2024)
6. Joshua Petimar, Christina A Roberto, Jason P Block, Nandita Mitra, Emily F Gregory, Emma Edmondson, **Gary Hettinger**, Laura A Gibson.  
 “Associations of the Philadelphia beverage tax with changes in adult body weight: an interrupted time series analysis.” *The Lancet Regional Health – Americas* (2024)
7. **Gary Hettinger**, Christina A. Roberto, Youjin Lee, Nandita Mitra.  
 “Doubly Robust Estimation of Policy-Relevant Causal Effects Under Interference.” *Journal of the Royal Statistical Society: Series C* (2024)
8. Youjin Lee, **Gary Hettinger**, Laura Gibson, Nandita Mitra.  
 “Policy Effect Evaluation Under Counterfactual Neighborhood Interventions in the Presence of Spillover.” *Journal of the Royal Statistical Society: Series A* (2025)
9. **Gary Hettinger**, David J Margolis, Nandita Mitra.  
 “Mendelian Randomization for Dermatology Research”  
*JAMA Dermatology* (2025)
10. **Gary Hettinger**, Youjin Lee, Nandita Mitra.  
 “Multiply Robust Difference-in-Differences Estimation of Causal Effect Curves for Continuous Exposures.” *Biometrics* (2025)
11. D. Zheng, **G. Hettinger**, C. Aftandilian, K. Bona, E. Caywood, A. Collier, C. Elgarten, C. Gathers, T. Ghosh, M. Gramatges, M. Henry, Y. Huang, Y. Li, C. Lotterman, K. Maloney, A. Mian, T. Miller, A. Modi, R. Mody, E. Morgan, R. Myers, H. Newman, J. Ortiz, A. Seif, C. Smith, J. Stokke, X. Wang, N. Winick, J. Wilkes, V. Wong, R. Aplenc, K. Getz.  
 “Real-world generalizability of clinical trial cytomolecular risk in pediatric acute myeloid leukemia (AML): a report from the REAL-AML cohort.” *Journal of the National Cancer Institute* (2025)
12. D. Zheng, **G. Hettinger**, L. Cao, C. Elgarten, B. Fisher, C. Gathers, Y. Huang, J. Ko, K. Leger, Y. Li, R. Myers, H. Narayan, J. Ortiz, A. Seif, R. Aplenc, K. Getz.  
 “National trends in dexrazoxane and cardiovascular healthcare utilization for children with AML.”  
 (Accepted: *JAMA Oncology*)
13. **Gary Hettinger**, Youjin Lee, Nandita Mitra.  
 “A Causal Framework for Evaluating Drivers of Policy Effect Heterogeneity Using Difference-in-Differences.” (Accepted: *Health Services and Outcomes Research Methodology*, arXiv:2408.16670)
14. **Gary Hettinger**, Qi Long, Ravi Parikh.  
 “Comparative Effectiveness of Second-Line Therapies for Advanced Non-Small Cell Lung Cancer: A Propensity-Score-Based Real-World Analysis.” (Accepted: *Clinical Lung Cancer*)

## Funding

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<b>Alex’s Lemonade Stand Foundation</b> , Young Investigator Award (PI: Zheng)	07/21/25 – 07/21/28
“Characterizing the role of measurable residual disease (MRD) in pediatric acute myeloid leukemia (AML) survival”	
Role: Co-Investigator	\$180,000

## Presentations

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<b>International Joint Conference CFE-CMStatistics</b>	London, UK
Invited Oral Presentation	December 2025

*"Causal Transportability with Local Interference: A Framework for Policy Effect Prediction Across Regions"*

**Johns Hopkins University Department of Biostatistics SLAM Working Group**

Baltimore, MD

Invited Oral Presentation

November 2025

*Semi-Parametric Causal Methods for Health Policy Evaluations Under Spillover*

**Eastern North American Region (ENAR) International Biometric Society Spring Meeting**

New Orleans, LA

Invited Oral Presentation

March 2025

*"Leveraging Generalized Parallel Trends Assumptions to Estimate Policy-Relevant Estimands"*

**International Conference on Health Policy Statistics (ICHPS)**

San Diego, CA

Contributed Oral Presentation

January 2025

*"Exploiting Exposure Heterogeneity for Deeper Policy Insights"*

**New York University, Department of Population Health**

Virtual

Invited Seminar

December 2024

*"Semi-Parametric Causal Methods for Health Policy Evaluations Under Interference"*

**Drexel University, Department of Epidemiology and Biostatistics**

Philadelphia, PA

Invited Seminar

December 2024

*"Semi-Parametric Causal Methods for Health Policy Evaluations Under Interference"*

**Boston University, Department of Biostatistics**

Boston, MA

Invited Seminar

October 2024

*"Semi-Parametric Causal Methods for Health Policy Evaluations Under Interference"*

**Penn Conference on Big Data in Biomedical and Population Health Sciences**

Philadelphia, PA

Contributed Poster Presentation

September 2024

*"Stochastic Health Policy Interventions under Interference Using a Bayesian G-Computation Framework"*

**Joint Statistical Meetings (JSM)**

Portland, OR

Invited Oral Presentation

August 2024

*"Robust Estimation and Transportation of Causal Effect Curves for Difference-in-Differences Designs"*

**American Causal Inference Conference (ACIC)**

Seattle, WA

Contributed Oral Presentation

May 2024

*"Evaluating Policy Mechanisms Through Exposure Heterogeneity Using Difference-in-Differences"*

**European Causal Inference Meeting (EuroCIM)**

Copenhagen, DK

Contributed Oral Presentation

April 2024

*"Counterfactual Policy Effect Estimation under Treatment and Spillover Heterogeneity"*

**Eastern North American Region (ENAR) International Biometric Society Spring Meeting**

Baltimore, MD

Invited Oral Presentation

March 2024

*"A Difference-in-Differences Framework for Heterogeneous Policy Exposures with an Eye Towards Generalizing and Transporting Policy Effects"*

**International Conference on Statistics and Data Science (ICSDS)**

Lisbon, PT

Contributed Oral Presentation

December 2023

*"Multiply Robust Estimation of Heterogeneous Direct and Indirect Policy Effects"*

**Center for Causal Inference (CCI) Seminars**

Contributed Oral Presentation

*"New Methods for Evaluating Heterogeneous Policies with Heterogeneous Exposures"*

Philadelphia, PA

November 2023

**Joint Statistical Meetings (JSM)**

Contributed Oral Presentation

*"Difference-in-Differences Estimators Under Heterogeneous Direct and Indirect Policy Exposures"*

Toronto, CA

August 2023

**New England Statistical Symposium (NESS)**

Invited Oral Presentation

*"Estimation of Policy-Relevant Causal Effects in the Presence of Interference under the Difference-in-Differences Framework with an Application to the Philadelphia Beverage Tax"*

Boston, MA

June 2023

**New England Statistical Symposium (NESS)**

Contributed Poster Presentation

*"Pairwise Doubly-Robust Difference-in-Differences Estimators in the Presence of Heterogeneous Direct and Indirect Policy Exposures"*

Boston, MA

June 2023

**American Causal Inference Conference (ACIC)**

Contributed Poster Presentation

*"Pairwise Doubly-Robust Difference-in-Differences Estimators in the Presence of Heterogeneous Direct and Indirect Policy Exposures"*

Austin, TX

May 2023

**UPenn Department of Biostatistics, Epidemiology, and Informatics Research Day**

Contributed Poster Presentation

*"Multiply Robust Difference-in-Differences Estimators in the Presence of Heterogeneous Policy Exposures"*

Philadelphia, PA

March 2023

**Eastern North American Region (ENAR) International Biometric Society Spring Meeting**

Invited Oral Presentation

*"A Difference-in-Differences Framework to Estimate Causal Effects for Policy Interventions in the Presence of Heterogeneous Interference"*

Nashville, TN

March 2023

**International Conference on Health Policy Statistics (ICHPS)**

Invited Oral Presentation

*"Estimation of Policy-Relevant Causal Effects in the Presence of Spillovers under the Difference-in-Differences Framework"*

Scottsdale, AZ

January 2023

**International Conference on Computational and Methodological Statistics (CMStatistics)**

Invited Oral Presentation

*"Estimation of Heterogeneous Policy-Relevant Causal Effects under the Difference-in-Differences Framework with Spillover"*

London, UK

December 2022

**Joint Statistical Meetings (JSM)**

Contributed Oral Presentation

*"Estimating Causal Effects of the Philadelphia Beverage Tax Policy in the Presence of Spillover"*

Washington D.C.

August 2022

**American Causal Inference Conference (ACIC)**

Berkeley, CA

Contributed Poster Presentation <i>"Estimation of Causal Effects for Philadelphia Beverage Tax in Presence of Spillover"</i>	May 2022
Eastern North American Region (ENAR) International Biometric Society Spring Meeting Contributed Oral Presentation <i>"A Bayesian Model-based Approach for Estimating the Instantaneous Reproduction Number Using Case-Notification Data in the Presence of Reporting Variation and Serial Interval Uncertainty"</i>	Houston, TX March 2022

## Awards

<b>Student Paper Travel Award</b> , International Conference on Health Policy Statistics (ICHPS)	2025
<b>Tom Ten Have Student Leadership Award</b> , Graduate Group in Epidemiology and Biostatistics (UPenn)	2024
<b>Exceptional Achievement Award for a Graduate Student</b> , ASA Philadelphia Chapter	2024
<b>Student Paper Competition Award</b> , ASA Health Policy Statistics Section	2024
<b>Student Research Award</b> , New England Statistical Symposium (NESS)	2023
<b>Best Poster Award</b> , Department of Biostatistics, Epidemiology, and Informatics Research Day (UPenn)	2023
<b>Tom Ten Have Award for Best Poster</b> , American Causal Inference Conference (ACIC)	2022
<b>Jonathan Raz Award for Best Qualifying Exam</b> , Division of Biostatistics (UPenn)	2021
<b>Summa Cum Laude</b> , Brown University	2017

## TEACHING

<b>BSTA 7900: Causal Inference in Biomedical Research</b> Invited Guest Lecture <i>"Quasi-Experimental Designs for Causal Inference with Longitudinal Data"</i> Division of Biostatistics, University of Pennsylvania	Oct 2025
<b>Summer Undergraduate Internship Program (SUIP)</b> Invited Workshop <i>"Introduction to Causal Inference"</i> Department of Biostatistics, Epidemiology, and Informatics, University of Pennsylvania	Jun 2024
<b>EPID 6450: Research Methods in Cancer Epidemiology</b> Invited Guest Lecture <i>"Evaluation Methods for Panel Data Studies"</i> Division of Epidemiology, University of Pennsylvania	Mar 2024
<b>BSTA 7900: Causal Inference in Biomedical Research</b> Invited Guest Lecture <i>"Interference in Causal Inference: Challenges and Recent Approaches"</i> Division of Biostatistics, University of Pennsylvania	Nov 2023
<b>BSTA 7900: Causal Inference in Biomedical Research</b>	Oct 2023

Invited Guest Lecture  
*“Causal Inference for Longitudinal Panel Data”*  
 Division of Biostatistics, University of Pennsylvania

**BSTA 6320: Statistical Methods for Survival and Categorical Data** Spring 2023  
 Graduate Teaching Assistant  
 Division of Biostatistics, University of Pennsylvania

**BSTA 6510: Introduction to Linear Models and Generalized Linear Models** Spring 2022  
 Graduate Teaching Assistant  
 Division of Biostatistics, University of Pennsylvania

**CSCI1570: Design and Analysis of Algorithms** Fall 2017  
 Undergraduate Teaching Assistant  
 Department of Computer Science, Brown University

**ECON 1110: Intermediate Microeconomics** Spring 2015  
 Undergraduate Teaching Assistant  
 Department of Economics, Brown University

## MENTORING

**Dissertation Committee Member** 2026 – 2029  
 Xinyi (Emily) Zhang, Biostatistics, NYU GSoM

**Dissertation Committee Member** 2025 – 2028  
 Richard Liu, Biostatistics, NYU GSoM

**PhD Student Dual-Degree Statistics Master’s Thesis** 2024 – 2025  
 Co-Mentor  
*“Bayesian Sensitivity Analyses for Policy Evaluation with Difference-in-Differences Under Violations of Parallel Trends”*  
 Wharton Department of Statistics and Data Science, University of Pennsylvania

**Biostatistics PhD Student Research Lab Rotation** Spring 2024  
 Co-Mentor  
*“Transporting Causal Effects of Policy Interventions with an Application to the Philadelphia Beverage Tax”*  
 Graduate Group in Epidemiology and Biostatistics, University of Pennsylvania

## SERVICE

**National Society Committees**

Co-Chair, Council for Emerging and New Statisticians (CENS), ENAR	2025 – 2026
Co-Chair, Committee for Member Outreach, Society for Causal Inference	2025 – 2026
Member, Program Committee, ENAR	2025 – 2026
Member, Program Committee, Society for Causal Inference	2025 – 2026
Steering Committee Member, CENS, ENAR	2024 – 2026
Member, Outreach Committee, International Conference on Health Policy Statistics (ICHPS)	2024 – 2026
Member, Outreach Committee, Society for Causal Inference	2024 – 2026
Student Representative, CENS, ENAR	2023 – 2026

### Conference Activities

Early Career Paper Award Reviewer, ASA Statistics in Epidemiology	2026
Invited Session Organizer, JSM	2024, 2025
Poster Competition Judge, ACIC	2024
Student Paper Award Reviewer, ENAR	2024
Session Chair, ENAR	2023 – 2025
Student Volunteer, ENAR	2023

### University Roles

Director of Data Analytics, Graduate and Professional Student Assembly (GAPSA), UPenn	2022 – 2023
Deputy Director, External Affairs Committee, GAPSA, UPenn	2021 – 2022
Student Representative, Biomedical Graduate Student Assembly (BGSA), UPenn	2021 – 2022

### Editorial Activities

Associate Editor, Observational Studies	2025 –
Reviewer, BMJ Public Health	2025 –
Reviewer, JAMA Dermatology	2025 –
Reviewer, Health Services and Outcomes Research Methodology	2025 –
Reviewer, Journal of the Royal Statistical Society Series C	2025 –
Reviewer, Statistics in Medicine	2024 –
Reviewer, Nature Communications Medicine	2023 –
Reviewer, Informatics in Medicine	2023 –
Reviewer, International Journal of Biostatistics	2023 –
Editorial Assistant, Observational Studies	2023 – 2025