

GARY HETTINGER, PhD
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EDUCATION

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

PROFESSIONAL EXPERIENCE

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

Manuscripts Under Review

1. **Gary Hettinger**, Youjin Lee, Nandita Mitra.
“A Causal Framework for Evaluating Drivers of Policy Effect Heterogeneity Using Difference-in-Differences.” (*Under Review: Health Services and Outcomes Research Methodology*, arXiv:2408.16670)
2. D. Zheng, **G. Hettinger**, E. Caywood, C. Elgarten, T. Ghosh, M. Gramatges, Y. Huang, Y. Li, T. Miller, A. Modi, R. Mody, R. Myers, A. Seif, C. Smith, J. Stokke, N. Winick, J. Wilkes, B. Fisher, R. Aplenc, K. Getz.
“Real-world generalizability of clinical trial cytogenetics and molecular characteristics in pediatric acute myeloid leukemia (AML)” (*Under Review: Blood*)
3. 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.
“Near Universal National Uptake of Dexrazoxane in the Real-World Setting Associated with Reduced Cardiac ICU Care Requirements in Pediatric Acute Myeloid Leukemia.” (*Under Review: Journal of Clinical Oncology*)
4. Jake Hogan, **Gary Hettinger**, Nandita Mitra, Brian Baumann.
“Real-World Comparative Survival for Patients Receiving Proton vs. Photon Therapy Using a Nationwide Cohort.” (*Under Review: JAMA Oncology*)

Presentations

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 Invited Seminar <i>"Semi-Parametric Causal Methods for Health Policy Evaluations Under Interference"</i>	Virtual December 2024
Drexel University, Department of Epidemiology and Biostatistics Invited Seminar <i>"Semi-Parametric Causal Methods for Health Policy Evaluations Under Interference"</i>	Philadelphia, PA December 2024
Boston University, Department of Biostatistics Invited Seminar <i>"Semi-Parametric Causal Methods for Health Policy Evaluations Under Interference"</i>	Boston, MA October 2024
Penn Conference on Big Data in Biomedical and Population Health Sciences Contributed Poster Presentation <i>"Stochastic Health Policy Interventions under Interference Using a Bayesian G-Computation Framework"</i>	Philadelphia, PA September 2024
Joint Statistical Meetings (JSM) Invited Oral Presentation <i>"Robust Estimation and Transportation of Causal Effect Curves for Difference-in-Differences Designs"</i>	Portland, OR August 2024
American Causal Inference Conference (ACIC) Contributed Oral Presentation <i>"Evaluating Policy Mechanisms Through Exposure Heterogeneity Using Difference-in-Differences"</i>	Seattle, WA May 2024
European Causal Inference Meeting (EuroCIM) Contributed Oral Presentation <i>"Counterfactual Policy Effect Estimation under Treatment and Spillover Heterogeneity"</i>	Copenhagen, DK April 2024
Eastern North American Region (ENAR) International Biometric Society Spring Meeting Invited Oral Presentation <i>"A Difference-in-Differences Framework for Heterogeneous Policy Exposures with an Eye Towards Generalizing and Transporting Policy Effects"</i>	Baltimore, MD March 2024
International Conference on Statistics and Data Science (ICSDS) Contributed Oral Presentation <i>"Multiply Robust Estimation of Heterogeneous Direct and Indirect Policy Effects"</i>	Lisbon, PT December 2023
Center for Causal Inference (CCI) Seminars Contributed Oral Presentation <i>"New Methods for Evaluating Heterogeneous Policies with Heterogeneous Exposures"</i>	Philadelphia, PA November 2023
Joint Statistical Meetings (JSM) Contributed Oral Presentation <i>"Difference-in-Differences Estimators Under Heterogeneous Direct and Indirect Policy Exposures"</i>	Toronto, CA August 2023
New England Statistical Symposium (NESS) Invited Oral Presentation	Boston, MA June 2023

“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”

New England Statistical Symposium (NESS)

Contributed Poster Presentation

Boston, MA

June 2023

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

American Causal Inference Conference (ACIC)

Contributed Poster Presentation

Austin, TX

May 2023

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

UPenn Department of Biostatistics, Epidemiology, and Informatics Research Day

Contributed Poster Presentation

Philadelphia, PA

March 2023

“Multiply Robust Difference-in-Differences Estimators in the Presence of Heterogeneous Policy Exposures”

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

Invited Oral Presentation

Nashville, TN

March 2023

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

International Conference on Health Policy Statistics (ICHPS)

Invited Oral Presentation

Scottsdale, AZ

January 2023

“Estimation of Policy-Relevant Causal Effects in the Presence of Spillovers under the Difference-in-Differences Framework”

International Conference on Computational and Methodological Statistics (CMStatistics)

Invited Oral Presentation

London, UK

December 2022

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

Joint Statistical Meetings (JSM)

Contributed Oral Presentation

Washington D.C.

August 2022

“Estimating Causal Effects of the Philadelphia Beverage Tax Policy in the Presence of Spillover”

American Causal Inference Conference (ACIC)

Contributed Poster Presentation

Berkeley, CA

May 2022

“Estimation of Causal Effects for Philadelphia Beverage Tax in Presence of Spillover”

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

Contributed Oral Presentation

Houston, TX

March 2022

“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”

Awards

Student Paper Travel Award, International Conference on Health Policy Statistics (ICHPS)

2025

Tom Ten Have Student Leadership Award, Graduate Group in Epidemiology and Biostatistics (UPenn)

2024

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

TEACHING

Summer Undergraduate Internship Program (SUIP) Invited Workshop <i>"Introduction to Causal Inference"</i> Department of Biostatistics, Epidemiology, and Informatics, University of Pennsylvania	Jun 2024
EPID 6450: Research Methods in Cancer Epidemiology Invited Guest Lecture <i>"Evaluation Methods for Panel Data Studies"</i> Division of Epidemiology, University of Pennsylvania	Mar 2024
BSTA 7900: Causal Inference in Biomedical Research Invited Guest Lecture <i>"Interference in Causal Inference: Challenges and Recent Approaches"</i> Division of Biostatistics, University of Pennsylvania	Nov 2023
BSTA 7900: Causal Inference in Biomedical Research Invited Guest Lecture <i>"Causal Inference for Longitudinal Panel Data"</i> Division of Biostatistics, University of Pennsylvania	Oct 2023
BSTA 6320: Statistical Methods for Survival and Categorical Data Graduate Teaching Assistant Division of Biostatistics, University of Pennsylvania	Spring 2023
BSTA 6510: Introduction to Linear Models and Generalized Linear Models Graduate Teaching Assistant Division of Biostatistics, University of Pennsylvania	Spring 2022
CSCI1570: Design and Analysis of Algorithms Undergraduate Teaching Assistant Department of Computer Science, Brown University	Fall 2017
ECON 1110: Intermediate Microeconomics	Spring 2015

Undergraduate Teaching Assistant
Department of Economics, Brown University

SERVICE

Conference Activities

Invited Session Organizer, JSM	2024, 2025
Poster Competition Judge, ACIC	2024
Session Chair, ENAR	2023 – 2025
Student Volunteer, ENAR	2023

National Society Committees

Outreach Committee, International Conference on Health Policy Statistics (ICHPS)	2024
Outreach Committee, Society for Causal Inference	2024, 2025
Student Paper Award Committee, ENAR	2024

Editorial Activities

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 –

Council for Emerging and New Statisticians (CENS), ENAR

Student Representative	2023 – present
Steering Committee	2024 – 2025
Co-Chair	2025 – 2026

Graduate and Professional Student Assembly, University of Pennsylvania

Deputy Director, External Affairs Committee	2021 – 2022
Director of Data Analytics	2022 – 2023

Biomedical Graduate Student Assembly, University of Pennsylvania

Student Representative	2021 – 2022
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