

GARY HETTINGER, PhD

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EDUCATION

University of Pennsylvania <i>Doctor of Philosophy, Biostatistics</i> Advisor: Dr. Nandita Mitra	Philadelphia, PA 2020 – 2025
University of Pennsylvania <i>Master of Science, Biostatistics</i> Advisor: Dr. Qi Long	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 2022–2025
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)
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*)

Manuscripts Under Review

1. S. Han, N. Mitra, **G. Hettinger***, A. Oganisian*. “Bayesian Sensitivity Analysis for Difference-in-Differences under Violations of Parallel Trends”. (Under Review: *Association for the Advancement of Artificial Intelligence*, arXiv:2508.02970)
2. 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: *Journal of Clinical Oncology*)

Funding

Alex's Lemonade Stand Foundation , 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 disparities”	
Role: Co-Investigator	\$180,000

Presentations

International Joint Conference CFE-CMStatistics	London, UK
Invited Oral Presentation	December 2025
<i>“Causal Transportability with Local Interference: A Framework for Policy Effect Prediction Across Regions”</i>	
 Johns Hopkins University, Survival, Longitudinal, and Multivariate Data Working Group	 Baltimore, MD
Invited Oral Presentation	November 2025
<i>TBD</i>	
 Eastern North American Region (ENAR) International Biometric Society Spring Meeting	 New Orleans, LA
Invited Oral Presentation	March 2025
<i>“Leveraging Generalized Parallel Trends Assumptions to Estimate Policy-Relevant Estimands”</i>	
 International Conference on Health Policy Statistics (ICHPS)	 San Diego, CA
Contributed Oral Presentation	January 2025
<i>“Exploiting Exposure Heterogeneity for Deeper Policy Insights”</i>	
 New York University, Department of Population Health	 Virtual
Invited Seminar	December 2024
<i>“Semi-Parametric Causal Methods for Health Policy Evaluations Under Interference”</i>	
 Drexel University, Department of Epidemiology and Biostatistics	 Philadelphia, PA
Invited Seminar	December 2024
<i>“Semi-Parametric Causal Methods for Health Policy Evaluations Under Interference”</i>	
 Boston University, Department of Biostatistics	 Boston, MA
Invited Seminar	October 2024
<i>“Semi-Parametric Causal Methods for Health Policy Evaluations Under Interference”</i>	
 Penn Conference on Big Data in Biomedical and Population Health Sciences	 Philadelphia, PA
Contributed Poster Presentation	September 2024
<i>“Stochastic Health Policy Interventions under Interference Using a Bayesian G-Computation Framework”</i>	
 Joint Statistical Meetings (JSM)	 Portland, OR
Invited Oral Presentation	August 2024
<i>“Robust Estimation and Transportation of Causal Effect Curves for Difference-in-Differences Designs”</i>	
 American Causal Inference Conference (ACIC)	 Seattle, WA
Contributed Oral Presentation	May 2024
<i>“Evaluating Policy Mechanisms Through Exposure Heterogeneity Using Difference-in-Differences”</i>	
 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 (ICSIDS)

Lisbon, PT

Contributed Oral Presentation

December 2023

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

Center for Causal Inference (CCI) Seminars

Philadelphia, PA

Contributed Oral Presentation

November 2023

"New Methods for Evaluating Heterogeneous Policies with Heterogeneous Exposures"

Joint Statistical Meetings (JSM)

Toronto, CA

Contributed Oral Presentation

August 2023

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

New England Statistical Symposium (NESS)

Boston, MA

Invited Oral Presentation

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)

Boston, MA

Contributed Poster Presentation

June 2023

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

American Causal Inference Conference (ACIC)

Austin, TX

Contributed Poster Presentation

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

Philadelphia, PA

Contributed Poster Presentation

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

Nashville, TN

Invited Oral Presentation

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)

Scottsdale, AZ

Invited Oral Presentation

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)

London, UK

Invited Oral Presentation December 2022
"Estimation of Heterogeneous Policy-Relevant Causal Effects under the Difference-in-Differences Framework with Spillover"

Joint Statistical Meetings (JSM) Washington D.C.
 Contributed Oral Presentation August 2022
"Estimating Causal Effects of the Philadelphia Beverage Tax Policy in the Presence of Spillover"

American Causal Inference Conference (ACIC) Berkeley, CA
 Contributed Poster Presentation May 2022
"Estimation of Causal Effects for Philadelphia Beverage Tax in Presence of Spillover"

Eastern North American Region (ENAR) International Biometric Society Spring Meeting Houston, TX
 Contributed Oral Presentation 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

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

“Evaluation Methods for Panel Data Studies”
Division of Epidemiology, University of Pennsylvania

BSTA 7900: Causal Inference in Biomedical Research Nov 2023
Invited Guest Lecture
“Interference in Causal Inference: Challenges and Recent Approaches”
Division of Biostatistics, University of Pennsylvania

BSTA 7900: Causal Inference in Biomedical Research 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

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 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
Member, Student Paper Award Committee, ENAR	2024 – 2026
Student Representative, CENS, ENAR	2023 – 2026

Conference Activities

Invited Session Organizer, JSM	2024, 2025
Poster Competition Judge, ACIC	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, 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