

# Curriculum Vitae

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## Research Interests

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Causal Inference, Missing Data, Semiparametric Statistics, Graphical Models, Machine Learning

## Employment

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**Rollins Assistant Professor** Jul 2021 – Present

Department of Biostatistics and Bioinformatics  
Rollins School of Public Health  
Emory University, Atlanta, GA, USA

*Secondary appointment: Department of Computer Science, Emory College of Arts and Sciences*

**Research Intern** Jun 2020 – Aug 2020

Information and Data Sciences Group  
Microsoft Research, Redmond, WA, USA

**Research Assistant** Sep 2016 – May 2021

Department of Computer Science  
Johns Hopkins University, Baltimore, MD, USA

**Research Intern** Jun 2015 – Sep 2015

Center of Institutional Evaluation, Research and Planning  
University of Texas at El Paso, TX, USA

**Research Assistant** Feb 2014 – Jan 2015

Istanbul Sehir University, Istanbul, Turkey

## Education

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**Johns Hopkins University**, Baltimore, MD, USA Sep 2016 – May 2021

Ph.D. in Computer Science

Advisor: Ilya Shpitser

Thesis: *Causal Inference Methods for Bias Correction in Data Analyses*

**Harvard University**, Boston, MA, USA Sep 2019 – Oct 2019

Visiting Scholar

Host: James Robins

Department of Epidemiology, School of Public Health

**University of Texas**, El Paso, Texas, USA Jan 2015 – May 2016

M.Sc. in Statistics

Advisor: Xiaogang Su

Thesis: *coxphMIC: R Package for Sparse Estimation of Cox Proportional Hazards Models*

**Istanbul Sehir University**, Istanbul, Turkey Sep 2013 – Dec 2014

M.Sc. in Electronics and Computer Engineering

Advisor: Ahmet Bulut

Thesis: *Conversion Rate Prediction in Search Engine Marketing*

**Sharif University of Technology**, Tehran, Iran Sep 2007 – May 2012

B.Sc. in Aerospace Engineering

Advisor: Afshin Banazadeh

Thesis: *Trajectory Planning for Multiple Unmanned Aerial Vehicles in Urban Environment*

## Publications

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(Star indicates equal contributions)

Xiaxian Ou and **Razieh Nabi**, “Coarsening Bias from Variable Discretization in Causal Functionals,” *Proceedings of the Conference on Uncertainty in Artificial Intelligence (UAI)*, AUAI Press, 2026.

Xiaxian Ou, Xinwei He, David Benkeser, and **Razieh Nabi**, “Assessing Racial Disparities in Healthcare Expenditures via Mediator Distribution Shifts,” *Statistics in Medicine*, 2026.

Elizabeth Rogawski McQuade, **Razieh Nabi**, Allison Codi, Natalie Dean, Marc Lipsitch, and David Benkeser, “Vaccine efficacy against naturally asymptomatic infections: A novel estimand for quantifying vaccine effects,” *Epidemiology*, 2026.

Emily Wu, Elizabeth Rogawski McQuade, Mats Stensrud, **Razieh Nabi**, and David Benkeser, “Target trial emulation without matching: a more efficient approach for evaluating vaccine effectiveness using observational data,” *Epidemiology*, 2026.

Trang Quynh Nguyen, **Razieh Nabi**, Fan Yang, Elizabeth A. Stuart, “Self-separated and self-connected models for mediator and outcome missingness in mediation analysis,” *Statistical Science*, 2026.

Muralikrishna Sethuraman, **Razieh Nabi**, and Faramarz Fekri, “MissNODAG: Differentiable Learning of Cyclic Causal Graphs from Incomplete Data,” *Transactions on Machine Learning Research*, 2026.

**Razieh Nabi**, Rohit Bhattacharya, Ilya Shpitser, and James Robins, “Response to Discussions of *Causal and Counterfactual Views of Missing Data Models*,” *Statistica Sinica*, 2025.

**Razieh Nabi**, Rohit Bhattacharya, Ilya Shpitser, and James Robins, “Causal and Counterfactual Views of Missing Data Models,” *Statistica Sinica*, 2025.

**Razieh Nabi**, Matteo Bonvini, Edward Kennedy, Ming-Yueh Huang, Marcela Smid, and Daniel O Scharfstein, “Semiparametric Sensitivity Analysis: Unmeasured Confounding in Observational Studies,” *Biometrics*, 2024.

Anna Guo, Jiwei Zhao, and **Razieh Nabi**, “Sufficient Identification Conditions and Semiparametric Estimation under Missing Not at Random Mechanisms,” *Proceedings of the Conference on Uncertainty in Artificial Intelligence (UAI)*, AUAI Press, 2023.

**Razieh Nabi** and Rohit Bhattacharya, “On Testability and Goodness of Fit Tests in Missing Data Models,” *Proceedings of the Conference on Uncertainty in Artificial Intelligence (UAI)*, AUAI Press, 2023.

Yue Yu, Xuan Kan, Hejie Cui, Ran Xu, Yujia Zheng, Xiangchen Song, Yanqiao Zhu, Kun Zhang, **Razieh Nabi**, Ying Guo, Chao Zhang, Carl Yang, “Deep Dag Learning of Effective Brain Connectivity for fMRI Analysis,” In *IEEE International Symposium on Biomedical Imaging*, 2023.

Rohit Bhattacharya and **Razieh Nabi**, “On Testability of the Front-Door Model via Verma Constraints,” *Proceedings of the Conference on Uncertainty in Artificial Intelligence (UAI)*, AUAI Press, 2022.

Yue Yu, Xuan Kan, Hejie Cui, Ran Xu, Yujia Zheng, Xiangchen Song, Yanqiao Zhu, Kun Zhang, **Razieh Nabi**, Ying Guo, Chao Zhang, Carl Yang, “Learning Task-Aware Effective Brain Connectivity for fMRI Analysis with Graph Neural Networks,” In *Proceedings of the IEEE International Conference on Big Data*, 2022.

**Razieh Nabi**, Joel Pfeiffer, Denis Charles, and Emre Kıcıman, “Causal Inference In The Presence Of Interference In Sponsored Search Advertising,” *Frontiers in Big Data, special issue on Causal Inference and Machine Learning with Network Data*, 2022.

**Razieh Nabi\***, Rohit Bhattacharya\*, and Ilya Shpitser, “Semiparametric Inference For Causal Effects In Graphical Models With Hidden Variables,” *Journal of Machine Learning Research (JMLR)* 23:1–76,

2022.

**Razieh Nabi**, Todd McNutt, and Ilya Shpitser, “Semiparametric Causal Sufficient Dimension Reduction of Multidimensional Treatments,” *Proceedings of the Conference on Uncertainty in Artificial Intelligence (UAI)*, AUAI Press, 2022.

**Razieh Nabi**, Daniel Malinsky, and Ilya Shpitser, “Optimal Training of Fair Predictive Models,” In *Proceedings of the 1st Conference on Causal Learning and Reasoning (CLear)*, PMLR 140:1–24, 2022.

**Razieh Nabi\***, Rohit Bhattacharya\*, and Ilya Shpitser, “Full Law Identification In Graphical Models Of Missing Data: Completeness Results,” In *Proceedings of the Thirty Seventh International Conference on Machine Learning (ICML)*, PMLR 119: 7153–7163, 2020.

**Razieh Nabi\***, Rohit Bhattacharya\*, Ilya Shpitser, and James Robins, “Identification In Missing Data Models Represented By Directed Acyclic Graphs,” In *Proceedings of the Thirty Fifth Conference on Uncertainty in Artificial Intelligence (UAI)*, AUAI Press, 2019.

Recipient of the **Tom Ten Have award** at Atlantic Causal Inference Conference (ACIC).

**Razieh Nabi**, Daniel Malinsky, and Ilya Shpitser, “Learning Optimal Fair Policies.” In *Proceedings of the Thirty Sixth International Conference on Machine Learning (ICML)*, PMLR 97: 4674–4682, 2019.

**Razieh Nabi**, Phyllis Kanki, and Ilya Shpitser, “Estimation of Personalized Effects Associated With Causal Pathways,” In *Proceedings of the Thirty Fourth Conference on Uncertainty in Artificial Intelligence (UAI)*, AUAI Press, 2018.

**Razieh Nabi** and Ilya Shpitser, “Fair Inference on Outcomes,” In *Proceedings of the Thirty Second Conference on Association for the Advancement of Artificial Intelligence (AAAI)*, AAAI Press, 2018.

**Razieh Nabi** and Xiaogang Su, “coxphMIC: An R Package for Sparse Estimation of Cox Proportional Hazards Models via Approximated Information Criteria,” *The R Journal*, 9(1): 229–238, 2017.

## Preprints

Allison Codi, Elizabeth Rogawski McQuade, **Razieh Nabi**, Mats Stensrud, Kaeum Choi, and David Benkeser, “Causal Vaccine Effects on Post-infection Outcomes in the Naturally Infected,” arXiv: 2604.00133.

Qi Zhang, Harsh Parikh, Ashley Naimi, **Razieh Nabi**, Christopher Kim, and Timothy Lash, “Controllable Generative Sandbox for Causal Inference,” arXiv: 2603.03587.

Anna Guo and **Razieh Nabi**, “Weighting-Based Identification and Estimation in Graphical Models of Missing Data,” arXiv: 2602.10969.

Zihang Wang, **Razieh Nabi**, and Benjamin Risk, “Causal Inference for Preprocessed Outcomes with an Application to Functional Connectivity,” arXiv: 2602.02240.

Anna Guo, Lin Liu, David Benkeser, and **Razieh Nabi**, “Causal Inference with the Napkin Graph,” arXiv: 2512.19861.

**Razieh Nabi** and David Benkeser, “Fair Risk Minimization under Causal Path-Specific Effect Constraints,” arXiv: 2408.01630.

**Razieh Nabi**, Nima Hejazi, Mark van der Laan, and David Benkeser, “Statistical Learning for Constrained Functional Parameters in Infinite-Dimensional Models with Applications in Fair Machine Learning,” arXiv: 2404.09847.

Anna Guo and **Razieh Nabi**, “Average Causal Effect Estimation in DAGs with Hidden Variables: Beyond Back-Door and Front-Door Criteria,” arXiv: 2409.03962.

Anna Guo, David Benkeser, and **Razieh Nabi**, “Flexible Nonparametric Inference for Causal Effects under the Front-Door Model,” arXiv: 2312.10234.

Lydia Liu, Deborah Inioluwa Raji, Angela Zhou, and others, “Bridging Prediction and Intervention Problems in Social Systems,” arXiv: 2507.05216.

Ranjani Srinivasan, Rohit Bhattacharya, **Razieh Nabi**, Elizabeth Ogburn, and Ilya Shpitser, “Graphical Models of Entangled Missingness,” arXiv: 2304.01953.

Jaron JR Lee, Rohit Bhattacharya, **Razieh Nabi**, and Ilya Shpitser “Ananke: A Python Package For Causal Inference Using Graphical Models,” arXiv: 2301.11477.

Numair Sani, Jaron Lee, **Razieh Nabi**, and Ilya Shpitser, “A Semiparametric Approach to Interpretable Machine Learning,” arXiv: 2006.04732.

## Research Funding

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### Active

**NSF** (MPI: F. Fekri, **R. Nabi**) Oct 2025 – Sept 2028  
Title: Two Sides of a Tapestry: Causal Inference and Model Discovery Amid Information Gaps in Complex Data

**NIH/NIBIB** – T32EB035514 (MPI: W. Lam, D. Myers, F. Robles, **R. Nabi**) June 2025 – May 2030  
Title: Advancement of Diagnostics by Joining User-centered and Scalable Technologies (ADJUST)

**NIH/NIEHS** – R21ES036795 (PI: **R. Nabi**) Sept 2024 – Aug 2026  
Title: Causally-Sufficient Dimensionality Reduction Methods for Assessing Joint Effects of Air Pollution Mixtures on Health Outcomes

**CDC** (PI: H. Bradley) Sept 2024 – Aug 2029  
Title: Modeling HIV, Viral Hepatitis, STI and TB to Improve Public Health (Coalition for Applied Modeling for Prevention: CAMP 3).

**CDC** (PI: B. Lopman) Sept 2024 – Aug 2025  
Title: Emory Center for Infectious Disease Modeling & Analytics and Training Hub (CIDMATH) Supplement

**PCORI** (MPI: J. Shen, D. Scharfstein) Sept 2024 – July 2027  
Title: Machine learning approaches to personalized lung cancer therapy with real-world data

**NIH/NIMH** – R01MH129855 (PI: B. Risk) Apr 2022 – Mar 2027  
Title: Statistical approaches to improving functional connectivity estimates w. an application to autism

### Past

**Biostats, Epi, & Research Design (BERD) Pilot** (PI: **R. Nabi**) Nov 2022 – Jan 2024  
Georgia Clinical & Translational Science Alliance (CTSA)  
Title: Tackling missing data from a causal and counterfactual point of view

### Pending

**NSF** (PI: **R. Nabi**)  
Title: Unified Methods for Robust Mechanism-Oriented Causal Inference and Constrained Decision-Making

**NIH/NIAID** (PI: E. R. McQuade)  
Title: Personalized antibiotic treatment rules for diarrhea that balance benefits with risks of antibiotic resistance

## Professional Leadership and Governance

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**Elected Leadership Board Member**, Society for Causal Inference (SCI), since July 2024.

**Committee Chair**, Professional Development Committee at the SCI, since July 2024.

**Organizing Committee Member**, Online Causal Inference Seminar (OCIS), since Dec 2023.

**Workshop Chair**, Uncertainty in AI (UAI 2023).

**Workshop Organizer**, Causal Inference Workshop at the Uncertainty in AI Conference (UAI 2024); The Neglected Assumptions In Causal Inference at the International Conference on Machine Learning Conference (ICML 2021).

**Session Chair**, Causal Discovery at the European Causal Inference Meeting (EuroCIM 2023); Advances in Causal Inference Workshop (UAI 2021).

## Peer Review and Editorial Contributions

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**Associate Editor**, Journal of Causal Inference (JCI), since Jan 2026

**Journal Reviewer** for key journals including:

Journal of the American Statistical Association (JASA); Annals of Statistics (AOS); Journal of the Royal Statistical Society (JRSS); Biometrics Journal; Journal of Biostatistics; Journal of Machine Learning Research (JMLR); Statistics in Medicine; Statistical Science; Journal of Causal Inference (JCI); Statistica Sinica; Journal of Statistical Software (JSS); American Journal of Epidemiology (AJE); Review of Economics and Statistics; Sociological Methods and Research; ACM Computing Surveys; Journal of Data Mining and Knowledge Discovery; Journal of Experimental and Theoretical AI.

**Area Chair** for key machine learning conferences including:

Uncertainty in Artificial Intelligence (UAI 2026); ACM FAccT (2026); Conference on Causal Learning and Reasoning (CLear 2023-26).

**Conference Proceedings Reviewer** for key machine learning conferences including:

Uncertainty in Artificial Intelligence (UAI 2020, 2022-24); Neural Information Processing Systems (NeurIPS 2018-20, 2022, 2024); Fairness, Accountability, and Transparency (FAccT 2022); International Conference on Machine Learning (ICML, 2019-20); Machine Learning for Healthcare (MLHC 2020); NeurIPS Reproducibility Challenge (2019); International Conference on Artificial Intelligence and Statistics (AISTATS 2019, 2024).

**Grant Reviewer** for NIH-ASPB study section (Oct 2025); NSF-NIH Smart Health and Biomedical Research initiative (2022).

**Workshop Reviewer** on topics related to causality & fairness, including:

Causal Discovery and Causality-Inspired Machine Learning (NeurIPS 2020); Algorithmic Fairness through the Lens of Causality & Interpretability (NeurIPS 2020); Consequential Decision Making in Dynamic Environments (NeurIPS 2020); Algorithmic Bias in Search and Recommendation, European Conference on Information Retrieval (ECIR 2020); Knowledge Discovery in Healthcare Data, International Joint Conference on Artificial Intelligence (IJCAI 2016).

## Teaching Experience

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**Instructor**

Causal Inference (BIOS 761 / EPI 760 )

Spring 2025, 2026

Advanced Causal Inference (BIOS 760R)

Fall 2022, 2023

*Recipient of the Departmental Distinguished Teaching Award, Apr 2023*

Should Susan Smoke: An Introduction to Causal Inference <i>The course was co-instructed and featured at the Johns Hopkins Hub magazine</i>	Intersession 2020
Pre-College Math, University of Texas at El Paso	Summer 2015
<b>Instructor of Short Courses</b>	
Hands-On Causal Inference with Python <i>O'Reilly Media, Virtual</i>	May 2026
Causal Graphical Methods for Handling Nonignorable Missing Data <i>American Causal Inference Conference (ACIC), Detroit, MI</i>	May 2025
Causal Graphical Methods For Handling Nonignorable Missing Data <i>Uncertainty in AI (UAI), Barcelona, Spain</i>	July 2024
Causal Graphical Methods for Handling Nonignorable Missing Data <i>American Causal Inference Conference (ACIC), Austin, TX</i>	May 2023
Fairness in Data Science: Criteria, Algorithms and Open Problems <i>16th annual Innovations in Design, Analysis, and Dissemination (IDAD): Frontiers in Biostatistics and Data Science Meeting, Kansas City, KS</i>	Apr 2023
Fairness in Data Science: Criteria, Algorithms and Open Problems <i>Statistics in Epidemiology session at Joint Statistical Meetings (JSM), Washington DC</i>	Aug 2022
<b>Teaching Assistant</b>	
Machine Learning: Data to Models, Johns Hopkins University	Spring 2019
Causal Inference, Johns Hopkins University	Fall 2018
Probability and Statistics, University of Texas at El Paso	Spring 2016
Elementary Statistical Methods, University of Texas at El Paso	Fall 2015
Calculus I/II, University of Texas at El Paso	Spring 2015
Physics I/II and Laboratory, Istanbul Sehir University	Sep 2013 – Jan 2015

## Current and Prior Trainees

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### Postdoc Advisor

Thomas Hsiao, Ph.D. in Biostatistics at Emory University, since June 2025

### PhD Thesis Advisor

Anna Guo, PhD candidate in BIOS, since Aug 2021

Xiaxian Ou, PhD student in BIOS, since Aug 2025

Xiaxian Ou, MSPH in BIOS, graduated May 2025

### Thesis Committee Member

Sydney Busch (Ph.D. in BIOS, 2026), Qi Zhang (Ph.D. in EPI, 2026), Ryan Carey (Ph.D. from Oxford, 2025), Shiyu Wang (Ph.D. in BIOS, 2024), Malvern Madondo (Ph.D. in CS, 2024), Wencheng Wu (MSPH in BIOS, 2024), Sohail Nizam (Ph.D. in BIOS, 2023), Lindsey Schader (Ph.D. in BIOS, 2023) Emily Wu (Ph.D. candidate in BIOS), Zihang Wang (Ph.D. candidate in BIOS), Yinxian Chen (Ph.D. candidate in EPI),

### Academic Advisor

Linlin Wu (PhD student in BIOS), Yihan Ma (MSPH student in BIOS), Jiaqi Ma (MPH student in BIOS), Ziyue Li (MPH/MSPH student in BIOS), Melese Mileati (MPH student in BIOS)

## Invited Talks

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<b>University of College London</b> , London, England Topics: Causal inference, graphical models, semiparametric statistics	March 2026
<b>Isaac Newton Institute for Mathematical Sciences</b> , Cambridge, England Title: Towards a Complete Characterization of Target Law Identification in Missing Data DAG Models	March 2026
<b>University of Grenoble Alpes</b> , Grenoble, France Topic: Causal inference, graphical models ( <b>Colloquium Talk</b> )	Feb 2026
<b>IMS Conference on Statistics and Data Science (ICSDS)</b> , Seville, Spain Topic: Causal inference, graphical models	Dec 2025
<b>Conference on Econometrics and Statistics (EcoSta)</b> , Tokyo, Japan Topic: Constrained statistical learning, causal inference	Aug 2025
<b>Joint Statistical Meeting (JSM)</b> , Nashville, TN Topic-contributed session on pushing boundaries on solutions for non-ignorable missingness	Aug 2025
<b>Southern Regional Council On Statistics (SRCOS)</b> , Jekyll island Topic: Constrained statistical learning, causal inference	June 2025
<b>Bayesian, Fiducial, and Frequentist (BFF) Conference</b> , Purdue University Topic: Constrained statistical learning, causal inference	May 2025
<b>European Causal Inference Meeting (EuroCIM)</b> , Ghent, Belgium Topic: Constrained statistical learning, algorithmic fairness	Apr 2025
<b>IMS Conference on Statistics and Data Science (ICSDS)</b> , Nice, France Topic: Causal inference, graphical models	Dec 2024
<b>IBC Conference</b> , Atlanta, GA Topic: missing data, causal inference	Dec 2024
<b>Johns Hopkins University</b> , Biostatistics Department, Baltimore, MD Topic: Causal mediation analysis, constrained learning, fairness ( <b>Colloquium Talk</b> )	Nov 2024
<b>Banff International Research Station (BIRS)</b> , Banff, Canada Title: Statistical Learning under Causal Fairness Constraints ( <b>Keynote talk</b> )	Oct 2024
<b>Joint symposium at McGill University &amp; UQAM</b> , Montreal, Canada Symposium on Mediation Research Days Title: Risk Minimization under Causal Path-Specific Effect Constraints	Sept 2024
<b>Joint Statistical Meeting (JSM)</b> , Portland, OR Topic-contributed session on Uncharted Methods In Health Equity Research	Aug 2024
<b>Banff International Research Station (BIRS)</b> , Banff, Canada Workshop on Bridging Prediction and Intervention Problems in Social Systems Title: Mitigating Unfair Biases in Statistical Learning with a Focus on Causal Constraints	June 2024
<b>Graduate Student Network Research Conference</b> , Virtual National Institute of Statistical Sciences (NISS) Title: Using Causal and Counterfactual Thinking to Address Various Sources of Bias in Observational Data and Algorithmic Models ( <b>Keynote talk</b> )	May 2024
<b>Center for Statistics &amp; the Social Sciences (CSSS)</b> , University of Washington, WA Title: Advancing Algorithmic Fairness: A Statistical Learning Approach with Causal Constraints	May 2024
<b>Michigan State University</b> , Department of Epidemiology and Biostatistics, MI Topic: causal inference, graphical models, vaccine studies ( <b>Colloquium Talk</b> )	Feb 2024

<b>New York University</b> , School of Global Public Health, NY Topic: causal inference, graphical models, vaccine studies ( <b>Colloquium Talk</b> )	Jan 2024
<b>IMS Conference</b> on Statistics and Data Science (ICSDS), Lisbon, Portugal Topic: missing data, causal inference	Dec 2023
<b>AI Health Symposium</b> , Emory School of Medicine, Atlanta, GA Topic: causal inference, decision making, data biases	Nov 2023
<b>Yale University</b> , Department of Biostatistics, New Haven, CT Topic: missing data, causal inference ( <b>Colloquium Talk</b> )	Oct 2023
<b>YoungStats</b> Webinar (Sub-initiative of the IMS New Researcher Group), Virtual Topic: algorithmic fairness, machine learning, causal inference ( <b>Discussant</b> )	Oct 2023
<b>Penn Conference</b> on Big Data in Biomedical and Health Sciences Philadelphia, PA Topic: algorithmic fairness, causal inference, automated decision making ( <b>Plenary Talk</b> )	Sep 2023
<b>University of Michigan</b> , Department of Biostatistics, Ann Arbor, MI Topic: algorithmic fairness, causal inference, automated decision making ( <b>Colloquium Talk</b> )	Sep 2023
<b>Uncertainty in AI</b> (UAI) Conference, Pittsburgh, PA Topic: missing data ( <b>Plenary Talk</b> )	Aug 2023
<b>European Causal Inference Meeting</b> (EuroCIM), Oslo, Norway Topic: missing data, causal inference ( <b>Plenary Talk</b> )	Apr 2023
<b>Columbia University</b> , Department of Biostatistics, New York City, NY Topic: missing data, causal inference ( <b>Colloquium Talk</b> )	Mar 2023
<b>Eastern North American Region</b> (ENAR) Meeting, Nashville, TN Invited session on When Machine Learning Meets Missing Data Analysis	Mar 2023
<b>Computational &amp; Methodological Statistics</b> (CMStatistics), Virtual Session on Missing Data Analysis and its Application	Dec 2022
<b>Neural Information Processing Systems</b> (NeurIPS) Conference, Virtual Workshop on Algorithmic Fairness through the Lens of Time ( <b>Keynote Talk</b> )	Dec 2022
<b>TU Dortmund University</b> , Department of Statistics, Dortmund, Germany Topic: missing data, causal inference ( <b>Colloquium Talk</b> )	Nov 2022
<b>Georgia Statistics Day</b> , University of Georgia, Athens, GA Topic: missing data, causal inference	Oct 2022
<b>Cornell University</b> , Department of Statistics and Data Science, Virtual Topic: missing data, causal inference ( <b>Colloquium Talk</b> )	Oct 2022
<b>University of Jyväskylä</b> , Department of Mathematics and Statistics, Virtual Topic: missing data, causal inference ( <b>Colloquium Talk</b> )	Oct 2022
<b>Pacific Causal Inference Conference</b> (PCIC), Virtual Topic: algorithmic fairness, causal inference, policy learning ( <b>Keynote Talk</b> )	Sep 2022
<b>Knowledge Discovery and Data Mining</b> (KDD) Conference, Washington DC Workshop on Causal Discovery ( <b>Keynote Talk</b> )	Aug 2022
<b>Joint Statistical Meeting</b> (JSM), Washington DC Topic-contributed session on Causal Inference in Neuroimaging and Radiology Topic: causal inference, high dimensional exposures, semiparametrics	Aug 2022
<b>Society for Epidemiologic Research</b> (SER), Virtual Symposium on What We Think About When We Think About Fairness	Jun 2022

Topic: algorithmic fairness, causal inference, automated decision making	
<b>University of Angers in France</b> , Virtual Workshop on Missing Data and Sensitivity analysis Topic: missing data, causal inference	May 2022
<b>Americal Causal Inference Conference (ACIC)</b> , Berkeley, CA Topic: missing data, causal inference	May 2022
<b>Vanderbilt University</b> , Department of Biostatistics, Virtual Topic: algorithmic fairness, causal inference ( <b>Colloquium Talk</b> )	Mar 2022
<b>Neural Information Processing Systems (NeurIPS)</b> Conference, Virtual Workshop on Causal Inference Challenges in Sequential Decision Making Topic: algorithmic fairness, causal inference ( <b>Keynote Talk</b> )	Dec 2021
<b>INFORMS</b> Annual Meeting, Virtual Topic: causal inference, semiparametrics, graphical models	Oct 2021
<b>University of Chicago</b> , Booth School of Business, Chicago, IL Topic: missing data, causal inference ( <b>Colloquium Talk</b> )	Oct 2021
<b>Georgia Statistics Day</b> , Emory Rollins School of Public Health, Atlanta, GA Topic: causal inference, mediation analysis, personalized medicine	Oct 2021
<b>Uncertainty in AI (UAI)</b> Conference, Virtual Workshop on Advances in Causal Inference Topic: causal inference, semiparametrics, graphical models ( <b>Keynote Talk</b> )	Jul 2021
<b>Online Causal Inference Seminar (OCIS)</b> , Virtual Topic: causal inference, semiparametrics, graphical models ( <b>Plenary Talk</b> )	May 2021
<b>Helmholtz AI</b> , Dr. Niki Kilbertus Research Group, Virtual Topic: causal inference, semiparametrics, graphical models	Apr 2021
<b>Computational &amp; Methodological Statistics (CMStatistics)</b> , Virtual Session on Advances in Causal Inference	Dec 2020
<b>Amazon Research</b> in Tuebingen Germany, Dr. Dominik Janzing's team, Virtual Topic: algorithmic fairness, causal mediation analysis	Dec 2020
<b>Cornell Tech</b> , Dr. Nathan Kallus's research group, Virtual Topic: semiparametrics, causal inference, graphical models	Oct 2020
<b>Microsoft Bing Ads and Microsoft Research</b> joint meeting, Virtual Topic: causal inference, interference, ad placement	Aug 2020
<b>Microsoft Research</b> in Washington, AI and Society Seminar Series, Virtual Topic: algorithmic fairness, machine learning, causal inference	Jul 2020
<b>University College London</b> in London UK, Dr. Ricardo Silva's research group, Virtual Topic: missing data, graphical models	Jul 2020
<b>Netflix Inc</b> in California, Virtual Topic: missing data, graphical models	Jun 2020
<b>University of Oxford and DeepMind</b> , AI Safety Teams in UK, Virtual Topic: algorithmic fairness, machine learning, causal inference	Jun 2020
<b>Ecole Polytechnique, INRIA Saclay, and Google Brain</b> , Virtual Topic: missing data, graphical models	May 2020
<b>Johns Hopkins University</b> , Causal Inference Working Group, Baltimore, MD	Apr 2020

Topic: causal inference, semiparametrics, graphical models	
<b>Harvard University</b> , Kolokotronis Circle, Boston, MA Topic: optimal fair policies, causal inference	Oct 2019
<b>Harvard University</b> , Dr. James Robins' reading group at IQSS, Boston, MA Topic: missing data, directed acyclic graphs	Oct 2019
<b>International Conference on Machine Learning (ICML)</b> , Long Beach, CA Topic: optimal fair policies, causal inference ( <b>Plenary Talk</b> )	Jun 2019
<b>California Institute of Technology (Caltech)</b> , Pasadena, CA Workshop on Decisions, Games, and Logic Topic: optimal fair policies, causal inference	Jun 2019
<b>Johns Hopkins University</b> , CS Grad Council Student Seminar, Baltimore, MD Topic: optimal policies, algorithmic fairness, causal inference	Jun 2019
<b>Johns Hopkins University</b> , Guest Lecturer (CS 477-677), Baltimore, MD Topic: fair regressions and policies	Dec 2018
<b>Association for the Advancement of AI (AAAI) Conference</b> , New Orleans, LA Topic: algorithmic fairness, fair prediction, causal inference ( <b>Plenary Talk</b> )	Jan 2018
<b>Johns Hopkins University</b> , Bloomberg School of Public Health, Baltimore, MD Join Meeting of Statistical Genetics and Causal Inference Research Groups Topic: Mendelian randomization, causal inference	Oct 2017

## Poster Presentations

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<b>Uncertainty in AI (UAI)</b> , Barcelona, Spain Title: Statistical learning for constrained functional parameters in infinite-dimensional models with applications in fair machine learning	July 2024
<b>American Causal Inference Conference (ACIC)</b> , Seattle, WA Title: Statistical learning for constrained functional parameters in infinite-dimensional models with applications in fair machine learning	May 2024
<b>Uncertainty in AI (UAI) Conference</b> , Pittsburgh, PA Title: On Testability and Goodness of Fit Tests in Missing Data Models	Aug 2023
<b>Uncertainty in AI (UAI) Conference</b> , Eindhoven, Netherlands Title: Semiparametric Causal Sufficient Dimension Reduction of Multidimensional Treatments	Jul 2022
<b>Neural Information Processing Systems (NeurIPS) Conference</b> , Virtual Workshop on Causal Discovery and Causality-Inspired ML Title: Causal Inference in the Presence of Interference in Sponsored Search Advertising	Dec 2020
<b>Statistical and Applied Mathematical Sciences Institute (SAMSI)</b> , Duke University Title 1: Identification in Missing Data Models Represented by Directed Acyclic Graphs Title 2: Estimation of Personalized Effects Associated with Causal Pathways	Dec 2019
<b>International Conference on Machine Learning (ICML)</b> , Long Beach, CA Title: Learning Optimal Fair Policies	Jun 2019
<b>Uncertainty in AI (UAI) Conference</b> , Monterey, CA Workshop on Causal Inference Title 1: Learning Optimal Fair Policies Title 2: Semiparametric Causal Sufficient Dimension Reduction of High Dimensional Treatment	Aug 2018
<b>Atlantic Causal Inference Conference (ACIC)</b> , Pittsburgh, PA	May 2018

Title 1: Estimation of Optimal Path-Specific Policies

Title 2: Fair Inference on Outcomes

Title 3: Semiparametric Causal Sufficient Dimension Reduction of High Dimensional Treatment

**Computing Research Association (CRA)**, San Francisco, CA Apr 2018

Grad Cohort for Women

Title: Fair Inference on Outcomes

**Neural Information Processing Systems (NeurIPS)** Conference, Long Beach, CA Dec 2017

Workshop on Causal Inference & Machine Learning for Intelligent Decision Making

Title 1: Fair Inference on Outcomes

Title 2: Semiparametric Causal Sufficient Dimension Reduction of High Dimensional Treatment

**Computing Community Consortium (CCC)**, Washington DC Oct 2017

Symposium on Computing Research: Addressing National Priorities and Societal Needs

Title: Fairness Through Causality

## Honors and Awards

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**Distinguished Teaching Award**, Department of Biostatistics & Bioinformatics Apr 2023

Awarded for offering an Advanced Causal Inference Course at Rollins School of Public Health

**Reviewer Award**, Neural Information Processing Systems (NeurIPS) Conference Dec 2020

Awarded to top 10% of high-scoring reviewers at the NeurIPS conference

**Student Scholarship**, Grace Hopper Celebration (GHC) Sep 2020

Organized by AnitaB.org for celebration of women in computing

**Travel Award**, Statistical and Applied Mathematical Sciences Institute (SAMSI) Dec 2019

Causal Inference Program Opening Workshop at Duke University

**Thomas R. Ten Have Award**, Atlantic Causal Inference Conference (ACIC) May 2019

Awarded for best poster at the ACIC conference, Montreal, Canada

**Summer Institute Scholarship**, University of Washington Jun 2018

Program: Summer Institute In Statistics and Modeling in Infectious Diseases (SISMID)

**Travel Award**, Grad Cohort for Women, San Francisco, CA Apr 2018

Awarded by the Computing Research Association (CRA)

**Travel Award**, Computing Community Consortium (CCC), Washington DC Oct 2017

**Distinguished Bachelor Dissertation Award**, Tehran, Iran Jul 2012

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