Event Agenda

American Causal Inference Conference organized by the Society for Causal Inference

Mon, May 12, 2025

Tue, May 13, 2025

8:30 AM - 12:30 PM

Proximal Causal Inference with Proxies: Valid and Invalid
Speakers: Prabrisha Rakshit, Chan Park

8:30 AM - 12:30 PM

Causal Graphical Methods For Handling Nonignorable Missing Data
Speakers: Razieh Nabi, Daniel Scharfstein

1:00 PM - 5:00 PM

Optimal Transport and Causal Inference: A Contemporary Perspective
Speaker: Kaiwen Hou

1:00 PM - 5:00 PM

Beyond the Average Treatment Effect: Estimating the causal effects of binary, categorical, continuous, and multivariate exposures in R
Speakers: Nicholas Williams, Kara Rudolph, Iván Díaz

Wed, May 14, 2025

8:00 AM - 9:00 AM

Breakfast
Location: Ontario East

8:30 AM - 9:45 AM

Plenary Session 1: "Causal Inference, Causal AI, AI - with application to medicine and public health"
Location: Ambassador 1&2
Speakers: Dan Malinsky, Stijn Vansteelandt, Elias Bareinboim, Xu Shi

9:45 AM - 10:15 AM

Break
Location: Ontario East

10:15 AM - 11:45 AM

Recent Advances in Matching and Weighting for Causal Inference
Location: Ambassador 2
Speakers: Hajoung Lee, Liang Li, Xiang Meng, Linying Yang, Yan Chen, Suehyun Kim

10:15 AM - 11:45 AM

Sensitivity Analysis
Location: Ambassador 3
Speakers: Colin Fogarty, Siyu Heng, Mengqi Lin

10:15 AM - 11:45 AM

Advancing Causal Inference with Machine Learning
Location: Ambassador 1
Speakers: Rahul Ladhania, Wenxuan Guo, Jared Murray, Larry Han, Amar Venugopal, Lars van der Laan

12:00 PM - 1:00 PM

Hot Ones: ACIC Edition
Location: Ambassador 1
Speakers: Kara Rudolph, Caleb Miles, Avi Feller, Maggie Makar, Elizabeth Stuart, Stefan Wager, Nina Joyce

1:15 PM - 2:45 PM

Cross-contexts causal inference and decision making
Location: Ambassador 1
Speakers: Lihua Lei, Michael Gechter, Sylvain Chassang, Roshni Sahoo, Cyrus Samii

1:15 PM - 2:45 PM

Recent Advances in Addressing Unmeasured Confounding
Location: Ambassador 2
Speakers: Chan Park, Jiewen Liu, Alexander Levis, Youjin Lee, Richard Guo

1:15 PM - 2:45 PM	**Targeted and Double/Debiased Machine Learning with Applications to Public Health Studies with Interference** Location: Ambassador 3 Speakers: Ke Zhang, Mark van der Laan, Ashley Buchanan, Heejong Bong, Paul Zivich, Samrachana Adhikari
2:45 PM - 3:15 PM	**Break** Location: Ontario East
3:15 PM - 4:45 PM	**Theoretical considerations of modern experimental design** Location: Ambassador 1 Speakers: Jaffer Zaidi, Srikar Katta, Lauren Liao, Aurelien Bibaut, Kyle Schindl, Zikai Li
3:15 PM - 4:45 PM	**Instrumental Variables** Location: Ambassador 2 Speakers: Bernardo Modenesi, Hui Lan, David Bruns-Smith, Luke Keele, Yunshu Zhang, Christian Tien
3:15 PM - 4:45 PM	**Difference in Differences, Synthetic Control, and Methods for Panel and Longitudinal Data** Location: Ambassador 3 Speakers: Evan Rosenman, Giulio Grossi, Lila Basnet, Asher Spector, Apoorva Lal, Yiqing Xu
5:00 PM - 5:30 PM	**Business Meeting** Location: Ambassador 1&2
5:45 PM - 7:00 PM	**Poster Session 1 + Reception** Location: Ontario East

Thu, May 15, 2025

8:00 AM - 9:00 AM	**Breakfast** Location: Ontario East
8:30 AM - 9:45 AM	**Plenary Session 2: "Frontiers in Causal Inference"** Location: Ambassador 1&2 Speakers: Luke Keele, Susan Murphy, Ed Kennedy, Miguel Hernan, Michael Kosorok
9:45 AM - 10:15 AM	**Break** Location: Ontario East
10:15 AM - 11:45 AM	**Heterogeneous Treatment Effects** Location: Ambassador 1 Speakers: Hanna Kim, Rahul Ladhania, Ana Maria Kenney, Yi Zhang, Nicholas Williams, Zijun Gao
10:15 AM - 11:45 AM	**From clinical trial emulation to trauma and protein folding; from personalized effects to separable effects: how causal methods inform health and biology** Location: Ambassador 2 Speakers: Andy Wilson, Tien Tran, Caleb Miles, Matthew Laws, Lucia Petito
10:15 AM - 11:45 AM	**Frontiers in Design-Based Inference: Experiments, Interference, and Interpretations** Location: Ambassador 3 Speakers: Christopher Harshaw, Cyrus Samii, David Choi, Lihua Lei
12:00 PM - 1:00 PM	**Assumption-lean modeling for causal effects** Location: Ambassador 2 Speakers: Karla Diaz-Ordaz, Stijn Vansteelandt, Ronghui (Lily) Xu, Max Farrell
12:00 PM - 1:00 PM	**Causal Inference for Optimizing and Evaluating Personalized Interventions in Precision Medicine** Location: Ambassador 1 Speakers: Daiqi Gao, Lu Wang, Donglin Zeng, Yuanjia Wang
12:00 PM - 1:00 PM	**Safe and Effective ML/AI Systems and Algorithmic Discrimination Protections: A Causal Take** Location: Ambassador 3 Speakers: Zhenke Wu, Wenbo Wu, Yixin Wang, Maggie Makar

1:15 PM - 2:45 PM	**Design and Inference for Dynamic Experiments** Location: Ambassador 1 Speakers: Iavor Bojinov, Tu Ni, Dae Woong (David) Ham, Chao Qin

1:15 PM - 2:45 PM **How to Handle Lack of Overlap? Perspectives on Modeling, Weighting, Matching, and Estimands**
Location: Ambassador 2
Speakers: Zach Branson, Alec McClean, Melody Huang, Chad Hazlett, Ben Hansen

1:15 PM - 2:45 PM **Policy Learning and Evaluation under Arbitrary Dependency**
Location: Ambassador 3
Speakers: Benedikt Koch, Toru Kitagawa, Elena Dal Torrione, Yi Zhang, Sahil Loomba

2:45 PM - 3:15 PM **Break**
Location: Ontario East

3:15 PM - 4:00 PM **Lightning Poster Session 1**
Location: Ambassador 1
Speakers: Xu Shi, Kaitlyn Lee, Manit Paul, Prabrisha Rakshit, Diogo Vieira Nunes da Conceição, Wenxin Zhang

4:00 PM - 4:45 PM **Lightning Poster Session 2**
Location: Ambassador 1
Speakers: Ben Hansen, Chenguang Pan, Zhongxuan Sun, Fangyu Liu, Xiaxian Ou

5:00 PM - 6:00 PM **Poster Session 2 + Reception**
Location: Ontario East

Fri, May 16, 2025

8:00 AM - 9:00 AM **Breakfast**
Location: Ontario East

8:30 AM - 9:45 AM **Plenary Session 3: "Surrogate Markers"**
Location: Ambassador 1&2
Speakers: Michael Elliott, Layla Parast, Geert Molenberghs, Hyunseung Kang

9:45 AM - 10:15 AM **Break**
Location: Ontario East

10:15 AM - 11:45 AM **Multi-faceted Approaches to Sensitivity Analysis for Observational Studies**
Location: Ambassador 1
Speakers: Hyunseung Kang, Colin Fogarty, Sam Pimentel, Xiao Liu, Ken Frank

10:15 AM - 11:45 AM **Generalizability, transportability, and distribution shift**
Location: Ambassador 2
Speakers: Ying Jin, Zijian Guo, Dominik Rothenhäusler, Xinran Miao

10:15 AM - 11:45 AM **Interpretable causal machine learning for understanding treatment effect heterogeneity**
Location: Ambassador 3
Speakers: Ana Maria Kenney, Layla Parast, Melody Huang, Falco Stoffi, Kara Rudolph