

2023 Interactive Causal Learning Conference Agenda

Thursday, November 30

18:00-20:00 Welcome Cocktail Dinner Location: The Terrace at the Hyatt Place Boca Raton

Friday, December 1

07:00-08:30 **Breakfast** Location: **The Breakfast Bar at the Hyatt Place Hotel**

08:30-09:00 Transportation to Florida Atlantic University College of Business

Session 1: Human Causal Learning

09:00-09:30 Eunice Yiu UC Berkeley *Towards Understanding Automated Causal Curriculum Learning in Humans and Reinforcement Learning Agents*

09:30-10:00 Anya Dahmani UC Berkeley *Caregiver Presence Influences the Explore-Exploit Trade-off*

10:00-10:30 Kai Sandbrink University of Oxford *Children Prioritize Purely Exploratory Actions in Observe-vs.-Bet Tasks*

10:30-10:45 **Break**

Session 2: High Dimensions and Other Difficulties

10:45-11:15 Jinyuan Liu Vanderbilt University *Demystifying Causal Interpretations from High-dimensional Potential Outcomes: Applications to Microbiome Data*

11:15-11:45 Linbo Wang University of Toronto *The Synthetic Instrument: From Sparse Association to Sparse Causation*

11:45-12:15 Mihnea Moldoveanu University of Toronto *Can Inverting the 'Inverse Problem' in the Inference of Causality Dissolve Difficulties in the Analysis of Causation?*

12:15-13:15 **Lunch** Location: **FAU College of Business, Rooms OD 102 & OD 103**

Session 3: Representation Learning and AI Safety

13:15-13:45 Yixin Wang University of Michigan *Interventional Causal Representation Learning*

13:45-14:15 Kasra Jalaldoust Columbia University *Transportable Representations*

14:15-14:45 James Fox & Ryan Carey University of Oxford *Towards Causal Foundations of Safe AI*

14:45-15:00 **Break**

Session 4: Estimation in Social Settings

15:00-15:30 Mark Van der Laan UC Berkeley *Super-Efficient Estimation of Average Treatment Effect based on Randomized Controlled Trial Augmented with External Controls or Observational Study*

15:30-16:00 Judith J. Lok Boston University *Marginal Structural Models for Network-Level Interventions: The Limiting Variance is Smaller with Estimated Weights*

16:00-16:30 Apoorva Lal Netflix *Augmented Balancing Estimators of the Average Treatment Effect on the Treated in Cross-sectional and Panel Designs*

16:30-17:00 Transportation to Hyatt Place Hotel

17:00-18:00 Free Time

18:00-21:00 **Dinner** Location: **Oceans 234 in Deerfield Beach**

Saturday, December 2

- 07:00-08:30 **Breakfast** **Location: The Breakfast Bar at the Hyatt Place Hotel**
- 08:30-09:00 Transportation to Florida Atlantic University College of Business
- Session 5: Social Systems and Complex Datasets
- 09:00-09:30 Chris Vickers *Women and the Econometrics of Family Trees*
Auburn University
- 09:30-10:00 Ritwik Vashistha *Modeling Macroscopic Causal Processes with Satellite Image Sequences: Applications to Climate Change Adaptation and Economic Development*
University of Texas at Austin
- 10:00-10:30 Benjamin Scott Manning *Automated Social Science: Using LLMs to Identify Causal Relationships in Social Phenomena*
MIT
- 10:30-10:45 **Break**
- Session 6: Disparities, Interference, and Robustness
- 10:45-11:15 Ang Yu *Nonparametric Causal Decomposition of Group Disparities*
University of Wisconsin-Madison
- 11:15-11:45 Ye Wang *Design-Based Inference for Spatial Experiments Under Unknown Interference*
UNC Chapel Hill
- 11:45-12:15 Armeen Taeb *Causality-Oriented Robustness: Exploiting General Additive Interventions*
University of Washington
- 12:15-13:15 **Lunch** **Location: FAU College of Business, Rooms OD 102 & OD 103**
- Session 7: Policy and Optimal Learning in Social Settings
- 13:15-13:45 Eli Ben-Michael *Policy Learning with Asymmetric Utilities*
Carnegie Mellon University
- 13:45-14:15 Roshni Sahoo *Policy Learning Under Biased Sample Selection*
Stanford University
- 14:15-14:45 Connor Jerzak *Selecting Optimal Candidate Profiles in Adversarial Environments Using Conjoint Analysis*
The University of Texas at Austin
- 14:45-15:15 Mats Julius Stensrud *Partial Identification of Optimal Treatment Regimes*
Ecole Polytechnique
Fédérale de Lausanne
- 15:15-16:00 Concluding Remarks & Discussion
- 16:00 End of Formal Conference Proceedings**
- 16:00-16:30 Transportation to Hyatt Place Hotel
- 16:30-18:00 Free Time
- 18:00-20:00 **Informal Dinner** **Location: The Hyatt Place Hotel**