

Frontiers in Machine Learning and Economics: Methods and Applications

Federal Reserve Bank of Philadelphia

Friday, November 6, 2026

8:00 a.m.–8:30 a.m. Continental Breakfast

8:30 a.m.–10:00 a.m. **SESSION 1: DISCRETE CHOICE MODELS**

“Training Neural Networks Embedded in Dynamic Discrete Choice Models”

Ecenur Oğuz (Northwestern University) and Robert L. Bray
(Northwestern University)

Discussant: Thomas Wiemann (Chicago Booth)

“From Unstructured Data to Demand Counterfactuals: Theory and Practice”

Tim Christensen (Yale University) and Giovanni Compiani
(Chicago Booth)

Discussant: Lorenzo Magnolfi (Ohio State University)

10:00 a.m.–10:30 a.m. Coffee Break

10:30 a.m.–Noon **SESSION 2: EXPERIMENTS IN AI ADOPTION**

“Generative AI in Financial Services: A Field Experiment in Insurance Advisory”

Yingju Ma (University of Cambridge)

Discussant: Edison Yu (Federal Reserve Bank of Philadelphia)

“AI Guidance for High-Stakes Decisions: Evidence from College Choice”

Andreas Bjerre-Nielsen (University of Copenhagen), Elliott Ash
(ETH Zurich), Sergio Galletta (Sapienza University of Rome), and
Benjamin Kohler (ETH Zurich)

Discussant: Alp Sungu (Wharton School)

Noon–2:00 p.m. **LUNCH AND KEYNOTE PRESENTATION**

“Model Monoculture and Diversity”

Michael Kearns (University of Pennsylvania)

2:00 p.m.–3:30 p.m. **SESSION 3: LARGE LANGUAGE MODELS**

“A Protocol for Rater-Invariant Measures from Language Models, with an Application to AI Exposure”

Ben Verschuere (Liminal Capital) and Angus Cameron (Liminal Capital)

Discussant: Amy Handlan (Brown University)

“Model Restrictiveness in Functional and Structural Settings”

Zhiheng You (University of Pennsylvania), Drew Fudenberg (MIT), and Wayne Yuan Gao (University of Pennsylvania)

Discussant: Christopher Walker (Duke University)

3:30 p.m.–4:00 p.m. Coffee Break

4:00 p.m.–5:30 p.m. **SESSION 4: ECONOMETRICS**

“Conformal Policy Learning with Distribution-Free Safety Guarantees”

Ying Jin (University of Pennsylvania) and Naoki Egami (MIT)

Discussant: Toru Kitagawa (Brown University)

“Uniform Inference for Kernel Instrumental Variable Regression”

Rahul Singh (Harvard University), Marvin Lob (ETH Zurich), and Suhas Vijaykumar (University of California San Diego)

Discussant: Simon Lee (Columbia University)

5:30 p.m.–7:00 p.m. Reception

All talks will be 30 minutes, followed by a 10-minute discussion, and a five-minute Q&A.