EMPIRICAL METHODS IN THE AGE OF AI

POSTER SESSIONS

North Courtyard (CoDa Building)

- 12:00 – 1:30 PM

Friday, October 2

1. Michele Sandrolini, PhD Student, Bologna University: A Reusable Simulation Infrastructure for Testing Human Mechanisms on LLMs
2. Lea Bottmer, Alumni, Swarthmore College: Synthetic Control with Disaggregated Data
3. Kaitlyn Lee, PhD Student, UC Berkeley: RieszBoost: Gradient Boosting for Riesz Regression
4. Alissa Gordon, PhD Student, UC Berkeley: Enhancing Hybrid Control Trials: Non-Parametric Sensitivity Analysis for Safe Integration of External Data
5. Britta Ingwersen, PhD Student, University of Hamburg: Prompt Injection for Detecting Treatment Contamination in Online Experiments
6. Linlin Li, Researcher, WestEd: From Usage to Learning Processes: Using System Log Data to Understand Technology-Based Learning Experiences
7. Zhenghao Zeng, Postdoc, Stanford University: Sequentially Rerandomized Switchback Experiments
8. Jiyuan Tan, PhD Student, Stanford University: CausalSmith: A Formally Grounded, Self-Improving Agentic Framework for Automated Research in Causal Inference
9. Aditya Ghosh, PhD Student, Stanford University: Nonparametric Causal Inference in Dynamic Thresholding Designs
10. Emilia Galan, PhD Student, Stanford University: LLMs as (Actual) Judges: Semi-Synthetic Causal Inference from Observational Data
11. Shiangyi Lin, PhD Student, Stanford University: Learning Treatment Representations for Downstream Instrumental Variable Regression
12. Bocheng Jing, PhD Student, Stanford University: Quantifying the Relative Impact of Design Bias vs. Unmeasured Confounding in Observational Comparative Effectiveness Research: a Simulation Study
13. Ayush Sawarni, PhD Student, Stanford University: Causal Evaluation of Agentic AI Systems
14. Joel Persson, Community member, Spotify: Statistical Foundations of LLM-based A/B Testing: A Surrogacy Framework for Human Causal Inference

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15. Arisa Sadeghpour, PhD Student, UC Berkeley: Isolating the Effects of Multiple Focal Elements within Textual Treatments
16. Suraj R Nair, Postdoc, Stanford University: Tracking the scale and impact of sand mining in India using Machine learning and satellite imagery
17. Amar Venugopal, PhD Student, Stanford University: Causal Effect Estimation with Latent Textual Treatments
18. Ezinne Nwankwo, Postdoc, Stanford University/Gladstone Institutes: Optimal Causal Annotations: An Application to Casenotes in Social Services
19. I-han Lai, PhD Student, Stanford University: Active decision-aware experimentation
20. Sarah Vicol, PhD Student, Stanford University: Learning About User Preferences from Stochastic Search Results and Recommendations
21. Nathan Cheng, PhD Student, Harvard University: Chiseling: Powerful and Valid Subgroup Selection via Interactive Machine Learning
22. Chase Mathis, PhD Student, UC Berkeley: Confidence Horizons
23. Anna Kelley, PhD Student, Stanford University: Higher-Order Asymptotics of Regression-Adjusted Estimators in Randomized Trials
24. Bryan Park, PhD Student, Stanford University: Neyman Jackknife: Design-Based Variance Estimation for Causal Inference under Interference
25. Juraj Bodik, Postdoc, Stanford University: Prediction Intervals for Individual Treatment Effects: Human Judgment Meets Cross-World Uncertainty
26. Xuelin Yang, PhD Student, UC Berkeley: Prediction-Interval-Conditional Prediction Intervals
27. Michael Kim, PhD Student, Stanford University: Error-Correcting Importance Sampling for Descriptor-Free Acceleration of Rare Events
28. Bruno Fava, Postdoc, Stanford University: Training and Testing with Multiple Splits: A Central Limit Theorem for Split-Sample Estimators
29. Rohan Hore, Postdoc, Stanford University: Changepoint localization with AI
30. Alexander Almeida, PhD Student, Stanford University: A Generalized SURE Approach to Compound Estimation with Unknown Variances
31. Alexandru Lopotenco, PhD Student, Stanford University: Improving effective sample size in surveys with synthetic responses

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Saturday, October 3

1. Robert Cohen, CEO and Founder, Ai Economics LLC: What does it really cost to run AI Agents?
2. Sareh Nabi, AI Researcher: When Does Structured Knowledge Help Neural Theorem Proving?
3. Alexander Quispe, CalTech/Microsoft: Agentic Delegation and the Language Frontier of Software Developers: A Model and Evidence from Claude Code on GitHub_
4. William Overman, PhD Student, Stanford University: The Oversight Game: Learning to Cooperatively Balance an AI Agent's Safety and Autonomy
5. Junlin Luo, PhD Student, Stanford University: An Auditable AI-Agent Workflow for X-Ray Detector Masking at the Linac Coherent Light Source
6. Rohan Alexander, Faculty, University of Toronto: Iterated creation, grading, and revision of data science projects by language models
7. Hengchen Dai, Associate Professor, UCLA/Stanford: From Human Context to Autonomous Action: Behavioral Transfer and Owner Disclosure in AI Agents
8. Andreas Haupt, Fellow, Stanford University: A Human--AI Method to Augment O*NET Task Information
9. Angelina You, Master's Student, Stanford University: Measurement before identification: what behavioral telemetry can and cannot support
10. Shivi Bhatia, Independent Researcher / Industry Practitioner, Amazon Web Services: Calibrating Agentic Evidence Accumulation: Adaptive Acquisition and Statistical Stopping for Reliable Decision-Making
11. Mayank Sharma, Master's Student, Stanford University: A Psychometric Audit of Humanity's Last Exam
12. Vasyl Rakivnenko, Alumnus, Stanford University: Measure the Ruler First: Pre-Registration and Noise Floors for LLM Agent Benchmarks
13. Felix Ringe, PhD Student, Stanford University: Reproducing Before Publishing: AI Agent-Driven Reproductions as 'Certificates of Trust'
14. Cervantes Lee Dr., Community member, Global Innovation Institute: From Fragmented Data to Strategic Decisions: AI-Assisted Measurement of the U.S. Asian Restaurant Market
15. Yichi Zhang, Work at Google, Google: Quantifying and Correcting Measurement Error in LLM-Generated Classifications
16. Rui Pan, PhD Student, Northwestern University: From Text to Multiplex Networks: LLM-Assisted Measurement of Social Relationships at Historical Scale
17. Ji Hae Choi, PhD Student, Northwestern University: What a Text Argues, Not What It Is About: Argumentative Form as a Second Axis of Text Analysis

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18. Renu Nargund, Early Career Researcher, University of Texas: From Prediction to Practice: Building Forecasting Capacity into Health Systems
19. Maty Bohacek, Master's Student, Stanford University: The Impact of AI on Social Media-Based Research: Measuring AI-Generated Content Across Platforms, Modalities, and Time
20. Zhenxia Chen, Visiting Professor, Stanford University: Machine Learning Transforms Longitudinal Behavior into Predictive Phenotypes of Biological Aging
21. Alessandro Sinai, PhD Student, Stanford University: Design-Based Variance Minimization: Training for Precision in AI-Assisted Inference
22. Johannes Ponge, Postdoc, Stanford University: Scoring of Considerations in Outbreak Policy Evaluation (SCOPE): an AI-assisted approach to measuring how pandemic policy frameworks integrate health, social, and economic considerations
23. Aparna Komarla, Master of Science Student, Stanford University: Bridging Empirical Methods and Legal Practice: AI-Assisted Evidence Synthesis under the Racial Justice Act
24. Anna Lyubarskaja, PhD Student, Stanford University: Gradient-Powered Inference
25. Ginnie Ma, PhD Student, Stanford University: Optimized Labeling Resource Allocation for Prediction-Assisted Inference via OPAL
26. Yan Si, PhD Student, Boston University: The Value of Personalization in Large Language Model Responses
27. Viet Vu, PhD Student, Stanford University/Roblox Corporation: Metric-Aligned AI Routing with Post-Action Recalibration
28. Puheng Li, PhD Student, Stanford University: Beyond Bradley–Terry: Random Logit Preference Modeling for RLHF
29. Junyi Liu, PhD Student, Stanford University: Is Bradley-Terry Model a Good Fit for RLHF?