Seamus Somerstep
Ann Arbor, Michigan — smrstep@umich.edu — (970) 691-2752
Website

EDUCATION

University of Michigan GPA: 3.89
PhD Statistics
Colorado State University GPA: 3.9
B.S. Mathematics
Minor Physics

EXPERIENCE

Goldman Sachs June 2025 - August 2025

- *Quantitative Strategist (Summer Associate):* Incoming intern in FICC and equities.

University of Michigan September 2021 - Ongoing

- *Graduate Student Research Assistant:* Published multiple research projects related to algorithmic fairness, transfer learning, and large language models.
- *Graduate Student Instructor:* Taught lab sections and hold office hours for undergraduate and graduate courses such as Data Mining and Machine Learning, Introduction to Statistical Theory, Applied Regression Analysis, and Introduction to Statistics and Data Analysis.

PUBLICATIONS

1. *S Somerstep, FM Polo, A Oliveira, P Mangal, M Silva, O Bhardwaj, M Yurochkin, and S Maity.*—**CARROT: A Cost Aware Rate Optimal Router**— *Under Review, 2025*

2. *FM Polo, S Somerstep, L Choshen, Y Sun, and M Yurochkin.*—**Sloth: scaling laws for LLM skills to predict multi-benchmark performance across families**— *Under Review, 2025*

3. *S Somerstep, FM Polo, M Banerjee, Y Ritov, M Yurochkin, and Y Sun*—**A Transfer Learning Framework for Weak-to-Strong Generalization**—*In International Conference on Learning Representations (ICLR), 2025*

4. *D Bracale, FM Polo, S Maity, S Somerstep, M Banerjee and Y Sun*—**Microfoundation Inference in Strategic Prediction**—*In International Conference on Artificial Intelligence and Statistics (AISTATS), 2025*

5. *R Cavalieri, B Owens, S Somerstep*—**All the λ_1's on Cyclic Admissible Covers**—*Accepted, Proceedings of the American Mathematical Society, 2025*

6. *S Somerstep, Y Ritov, Y Sun*—**Algorithmic Fairness in Performative Policy Learning: Escaping the Impossibility of Group Fairness**—*In ACM Conference on Fairness Accountability and Transparency (FAccT), 2024*

7. *S Somerstep, Y Sun, Y Ritov*—**Reverse Causal Strategic Learning with Ramifications in Two Sided Markets**—*In International Conference on Learning Representations (ICLR), 2024*

CONTRIBUTED TALKS

- **Algorithmic Fairness in Performative Policy Learning** MSSISS, Ann Arbor MI, 2024
- **From Equity to Equality in Performative Prediction** IMS International Conference in Statistics and Data Science, Lisbon Portugal, 2023
- **Reverse Causal Strategic Learning with Ramifications in Two Sided Markets** Algorithmic Fairness Through the Lens of Time, New Orleans LA, 2023

HONORS AND AWARDS

- Oral presentation at Algorithmic Fairness Through the Lens of Time 2023 Neurips Workshop
- Barry Goldwater Scholarship, 2019