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EXPERIENCE

University of Michigan Lecturer | (for the Master of Applied Data Science program)

• In Causal Inference (SIADS 630), cover topics on controlled regression, matching, IV, RD and DID. • In Data Science for Social Good (SIADS 688), cover applications of causal inference and behavioral economics theories to enhance pro-social behaviors across diverse domains (e.g. energy conservation and microfinance).

Amazon Data Scientist and Experimenter, SEAS

- Built scalable data pipelines using Python, Spark, and SQL to process LLM-generated Bill of Material decomposition for over 2 million ASINs. Developed a causal model using the Heckman Selection method to link commodity price changes to vendor cost increases. Led the model's expansion, identifying \$140M in annual cost reduction opportunities across nine product categories (GLs), and delivered model predictions as a data product.
- Employed machine learning methods (K-Means, Spectral Clustering) and developed a data pipeline to identify and extract substitution patterns from search behavior, which fed into a downstream portfolio recommendation model. Prepared the codebase for production integration and facilitated a successful handoff to the development team.
- · Engineered and administrated high-impact experiments on vendor negotiation and search behavior optimization. Leveraged AWS services to manage experimental data collection, ensuring high consistency and accuracy in data guality throughout the experiments. Developed a scalable solution for expanding the scope of the experiment, and recruited over 50,000 participants in two weeks.

University of Michigan Postdoc Research Fellow

- Nov 2022 Aug 2024 Coordinate a large-scale field experiment with Digital Green, drawing on experience with Python, oTree, and JavaScript to establish a lab-in-the-field study focused on the adoption of an LLM-assisted chatbot, Farmer.Chat, in India.
- Oversee lab operations at the Behavioral Laboratory, including participant recruitment, experiment setup, and providing critical feedback on experiment designs.

Amazon Economist Intern. CoreAl

• Translated a theoretical model of seller/vendor contract selection into an experimental interface, implementing both front-end and back-end components in oTree to create a controlled decision environment. Leveraged SQL to pull and calibrate with real business data. Administered the experiment end-to-end, providing insights on optimal contract design.

University of Michigan Research Associate, Empirical Legal Studies Center

SKILLS

Methods Causal Inference (Experiments, DML, DID, RDD, Syenthetic Control), Machine Learning (K-Means and Spectral Clustering, PCA, Linear/Logistic/Lasso/Ridge Regression, Random Forest, Boosting/Bagging, Ensemble Methods), Social Network Analysis (community detection), Survey Design

Packages Pandas, PyTorch, PySpark, Numpy, SciPy, sklearn, linearmodels, Stargazer

Languages | Python, SQL, Stata, ATEX | Technologies | Linux, Vim, Tmux, oTree, ORSEE, ArcGIS, Git

EDUCATION

University of Michigan | Ph.D. in Information Thesis: Essays on Field Experiments in Behavioral Economics

University of Michigan | Bachelor of Science in Pure Math, Economics (with Honors) 2012 - 2014 with minor in Complex System

Central University of Finance and Economics, Beijing, China Bachelor of Science in Mathematical Economics and Mathematical Finance (transferred) 2010 - 2012

PUBLICATIONS

- M.-J. Fong, J. Li, L. Li, D. Bergemann, Y. Chen. Vendor Negotiation Experiment and Training Tool. 11th Annual Consumer Science Summit, July 2024 (Amazon Internal).
- Li, Dillahunt, and Rosenblat. Does Driving as a Form of "Gig Work" Mitigate Low-Skilled Job Seekers' Negative Long-Term Unemployment Effects? Proc. ACM Hum.-Comput. Interact. 3, CSCW 2019
- Dillahunt, Kameswaran, Li and Rosenblat. Uncovering the Values and Constraints of Real-time Ridesharing for Low-resource Populations. CHI 2017, ACM, New York, NY, USA

WORKING PAPERS

- Motivating metadata contributions for data reuse and reproducibility, a field experiment (with Yan Chen, Margaret Levenstein and Lars Vilhuber, draft available)
- Increasing and retaining women's participation in Wikipedia, a field experiment (with Yan Chen, David Miller and Muriel Niederle, draft available)

linfeng Data Scientist/Experimenter/Lecturer

Feb 2023 - Dec 2024

Jul 2022 - Oct 2022

Aua 2014 - Aua 2015

2015 - 2022

May 2022 - Present