

Fengshi Niu

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EDUCATION

University of California, Berkeley

8/2015-8/2021

- Ph.D. in Economics
- M.A. in Statistics

Tsinghua University

8/2011-6/2015

- B.A. in Economics and Finance
- Beijing Outstanding Graduate

PROFESSIONAL EXPERIENCE

Stanford Graduate School of Business - Marketing, Postdoctoral Scholar

9/2021-8/2022

- Developed statistical methods for ads measurement with Harikesh Nair and Navdeep Sahni

Microsoft Research - Office of the Chief Economist, Research Intern

5/2021-8/2021

- Developed differentially private and interpretable algorithms for heterogeneous treatment effect estimation

Facebook - Core Data Science, Research Intern

5/2019-8/2019

- Optimized offline evaluation of ads ranking by utilizing both experimental data and observational data
- Improved the correlation between offline estimated metric lift and that estimated using online experiment by 11%

University of California - Berkeley, Graduate Student Instructor

8/2017-5/2019

- Taught weekly discussion sections, held office hours, designed problem sets, and graded for the following courses: Graduate Econometrics (Econ 240A, 240B), Graduate Game Theory (Econ 201B)

RESEARCH INTERESTS

Econometric Theory, Causal Inference, Data Privacy, Digital Marketing

PUBLICATIONS

1. **Auction Throttling and Causal Inference of Online Advertising Effects**, with George Gui and Harikesh Nair, *ACM conference on Economics and Computation (EC)*, 2022.
2. **Kernel Density Estimation for Undirected Dyadic Data**, with Bryan Graham and James Powell, *Forthcoming, Journal of Econometrics*, 2022.
3. **Differentially Private Estimation of Heterogeneous Causal Effects**, with Harsha Nori, Brian Quistoff, Rich Caruana, Donald Ngwe, Aadharsh Kannan, *Conference on Causal Learning and Reasoning (CLeaR)*, 2022.
4. **Essays on Econometrics of Dyadic Data**, Ph.D. Dissertation, 2021.

WORKING PAPERS

1. **Minimax Risk and Uniform Convergence Rates for Nonparametric Dyadic Regression**, with Bryan Graham and James Powel, *Revise and Resubmit, Econometric Theory*, 2021.
2. **Optional Intermediaries and Pricing Restraints**, with Alex White and Chang Liu, *Revise and Resubmit, Journal of Economics & Management Strategy*, 2021.

PRESENTATIONS

Error Components Models for Dyadic Data

- Conference in Honor of James L. Powell, Berkeley, CA

4/2022

Differentially Private Estimation of Heterogeneous Causal Effects

- Conference on Causal Learning and Reasoning (CLeaR), Eureka, CA

4/2022

Auction Throttling and Causal Inference of Online Advertising Effects

- INFORMS Annual Meeting, Virtual

10/2021

Minimax Risk and Uniform Convergence Rates for Nonparametric Dyadic Regression

- Berkeley Econometrics Seminar, UC Berkeley

12/2020

Kernel Density Estimation for Undirected Dyadic Data

- Berkeley-Stanford Econometrics Jamboree, UC Berkeley

11/2019

Optional Intermediaries and Pricing Restraints

- Toulouse Digital Economics Conference, Toulouse School of Economics, France

1/2019

OTHER PROFESSIONAL EXPERIENCE

Reviewer for *Journal of Econometrics* and *Journal of Business & Economic Statistics*

TECHNICAL TOOLS

Python, R, SQL, Stata, bash, git, \LaTeX , plotly, scikit-learn, statsmodel, xgboost, Keras, EconML, InterpretML

LANGUAGES

English (fluent), Mandarin (native)

Updated 2022/06/12