

Fei Fang

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Research Interest

Causal inference under network interference, applications of causal analysis in social sciences and medical research

Position

- Postdoctoral Associate Sep 2022-
Yale University, CT, USA
Advisors: Prof. Laura Forastiere and Prof. Edoardo M. Airolidi

Education

- Ph.D. in Business Administration (Decision Sciences) Sep 2017-July 2022
Duke University, NC, USA
Advisors: Prof. Alexandre Belloni
- M.A in Statistics Sep 2014-May 2016
Boston University, MA, USA
Advisors: Prof. Daniel L. Sussman and Prof. Konstantinos Spiliopoulos

Preprints and Publications

* represents the first author, † represents alphabetical ordering and ◊ represents the corresponding author.

- 1 Belloni, A., †**Fang, F.**, & Volfovsky, A. (2025). Neighborhood adaptive estimators for causal inference under network interference. arXiv. [\[Online\]](#)
- 2 Jiang, C., **Fang, F.**, Talbot, D., & Schnitzer, M. E. (2025). Estimating Direct and Spillover Vaccine Effectiveness with Partial Interference under Test-Negative Design Sampling. medRxiv. [\[Online\]](#)
- 3 Arlotto, A., Belloni, A., †**Fang, F.**, & Pekeč, S. Ballot Design and Electoral Outcomes: The Role of Candidate Order and Party Affiliation (2024). [\[Online\]](#)
- 4 Wu, Y., **Fang, F.**, Fan, X., & Nie, H. (2024). Associations of Cannabis Use, Metabolic Dysfunction-Associated Steatotic Liver Disease, and Liver Fibrosis in US Adults. Cannabis and Cannabinoid Research. [\[Online\]](#)
- 5 Wu, Y., & ◊**Fang, F.** (2024). Validating the new nomenclature of steatotic liver disease in patients with excessive alcohol intake. The Lancet Gastroenterology & Hepatology, 9(5), 409. [\[Online\]](#)
- 6 ***Fang, F.**, Sussman, D. L., & Lyzinski, V. (2018). Tractable graph matching via soft seeding. arXiv. [\[Online\]](#)

- 7 ***Fang, F.**, Sun, Y., & Spiliopoulos, K. (2017). On the effect of heterogeneity on flocking behavior and systemic risk. *Statistics & Risk Modeling*, 34(3-4), 141–155. [\[Online\]](#)

Invited Talks

1. Design-based Weighted Regression Estimators for Conditional Spillover Effects
 - Eastern North American Region (ENAR) Spring Meeting, New Orleans 2025
 - INFORMS Annual Meeting, Session Chair for the "Frontiers in Causal Inference" section, Seattle 2024
2. Average Inward and Outward Spillovers of One Unit's Treatment under Network Interference
 - International Conference on Econometrics and Statistics, Online 2024
 - New England Statistics Symposium, University of Connecticut 2024
 - American Causal Inference Conference, Seattle 2024
 - ISMS Marketing Science Conference, Miami 2023
 - ICSCA China Conference, Online 2023
3. Bayesian Inference for Causal Effects under Interference in the Presence of a Partially Observed Diffusion Process on Networks
 - International Conference on Econometrics and Statistics, Online 2023
 - American Causal Inference Conference, Austin 2023
4. Neighborhood Adaptive Estimators for Causal Inference under Network Interference
 - International Conference on Econometrics and Statistics, online 2022
 - New England Statistics Symposium, University of Connecticut 2022
 - INFORMS Annual Meeting, Online 2021
5. Ballot Design and Electoral Outcomes: The Role of Candidate Order and Party Affiliation
 - Joint Statistical Meetings, Online 2021
6. Uniform Regret Bounds for Quantile Regression Tree Process in Offline and Online Settings
 - INFORMS Annual Meeting, Online 2020
 - Joint Statistical Meetings, Online 2020

Services and Referees

1. Journal refereeing: *Journal of Statistics* (AOS)

Teaching Experience

- Instructor
 1. EGRMGMT 580: Decision Models (Instructor evaluation: 4.86/5) Fall 2020
- Teaching Assistant
 1. Decision 618: Decision Sciences for Business Fall 2019, 2020, 2021
 2. Decision 561F: Foundations of Decision Sciences Fall 2019, 2020, 2021
 3. Decision 520Q: Fundamentals of Decision Sciences Fall 2019, 2020, 2021

Honors and Awards

- Ph.D. Fellowship, Duke University Sep 2017-Aug 2018
- Dean's Ph.D. Fellowship, Boston University Sep 2016-May 2017
- 2nd Prize of Comprehensive Assessment, Guangdong University of Foreign Studies Oct 2012

Skills

- Languages: English (fluent), Chinese (native).
- Computer: R, LaTeX, C++, Java, Linux