

# Yuchen Hu

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## CONTACT DETAILS

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## RESEARCH KEYWORDS

Data-Driven Decision-Making, Causal Inference, Stochastic Process, Policy Evaluation, Experimental Design, Interference

## EDUCATION

*Ph.D. in Management Science & Engineering* 2020 – present  
[Stanford University](#), Stanford, CA GPA: 4.1/4.3  
Thesis Advisor: [Stefan Wager](#)  
Committee: [Stefan Wager](#), [Johan Ugander](#), [Ramesh Johari](#)

*M.S. in Biostatistics* 2018 – 2020  
[Harvard University](#), Cambridge, MA GPA: 4.0/4.0  
Thesis Advisor: [Rui Wang](#)

*B.Sc. in Applied Mathematics* 2014 – 2018  
[Hong Kong Polytechnic University](#), Hong Kong GPA: 4.0/4.0  
Capstone Project Advisor: [Binyan Jiang](#)

## JOURNAL ARTICLES

6. **Yuchen Hu** and Lawrence M. Wein. [Analysis of the Privacy-Performance Tradeoff of Reference Testing in Forensic Investigative Genetic Genealogy](#). *Journal of Forensic Sciences*, forthcoming.
5. **Yuchen Hu** and Stefan Wager. [Off-Policy Evaluation in Partially Observed Markov Decision Processes](#). *Annals of Statistics*, 51(4), 2023.
4. **Yuchen Hu**, Shuangning Li, and Stefan Wager. [Average Direct and Indirect Causal Effects under Interference](#). *Biometrika*, 109(4), 2022.
3. Ante Bing\*, **Yuchen Hu**\*, Melanie Prague, Alison L. Hill, Jonathan Z. Li, Ronald J. Bosch, Victor DeGruttola, and Rui Wang. [Comparison of Empirical and Dynamic Models for HIV Viral Load Rebound after Treatment Interruption](#). *Statistical Communications in Infectious Diseases*, 12(s1), 2020. (\*: Equal contribution)
2. Rui Wang, Ante Bing, Cathy Wang, **Yuchen Hu**, Ronald J. Bosch, and Victor DeGruttola. [A Flexible Nonlinear Mixed Effects Model for HIV Viral Load Rebound after Treatment Interruption](#). *Statistics in Medicine*, 39(15), 2020.
1. Sara N. Bleich, Jesse C. Jones-Smith, Marian P. Jarlenski, Julia A. Wolfson, Johannah M. Frelief, Huiru Tao, **Yuchen Hu**, Anna Zink, Caroline G. Dunn, Mark J. Soto, and Bradley J. Herring. [Impact of Changes in Chain Restaurant Calories over Time on Obesity Risk](#). *Journal of General Internal Medicine*, 35(6), 2020.

## CONFERENCE ARTICLES

2. **Yuchen Hu**, Henry Zhu, Emma Brunskill, and Stefan Wager. [Minimax-Regret Sample Selection in Randomized Experiments](#). *ACM Conference on Economics and Computation (EC)*, forthcoming.

1. Ruohan Zhan, Shichao Han, **Yuchen Hu**, and Zhenling Jiang. **Estimating Treatment Effects under Recommender Interference: A Structured Neural Networks Approach**. *ACM Conference on Economics and Computation (EC)*, forthcoming.

## PRIPRINTS

1. **Yuchen Hu** and Stefan Wager. **Switchback Experiments under Geometric Mixing**. arXiv preprint arXiv:2209.00197.

## TALKS AND WORKSHOPS

3. Minimax-Regret Sample Selection in Randomized Experiments.
  - *The Twenty-Fifth ACM Conference on Economics and Computation (EC'24)*, Yale University, New Haven, July 2024.
  - *Stanford Causal Science Center Conference on Experimentation*, Stanford, CA, May 2024.
  - *American Causal Inference Conference*, Seattle, WA, May 2024.
  - *Algorithmic Fairness Seminar, Stanford University*, Stanford, CA, April 2024.
  - *Stanford Causal Science Center Conference*, Stanford, CA, November 2023.
  - *Metrics Lunch, Stanford University*, Stanford, CA, November 2023.
  - *Data Driven Research Group, Stanford University*, Stanford, CA, May 2023.
  - *Stanford Data Science Conference*, Stanford, CA, May 2023.
2. Switchback Experiments under Geometric Mixing.
  - *Stanford Causal Inference Guest Lecture*, Stanford, CA, June 2024.
  - *American Causal Inference Conference*, Seattle, WA, May 2024.
  - *OR Seminar, Stanford University*, Stanford, CA, April 2024.
  - *Metrics Lunch, Stanford University*, Stanford, CA, April 2024.
  - *The 14th POMS-HK International Conference*, HKUST, Hong Kong SAR, January 2024.
  - *IMS Young Mathematical Scientist Forum*, NUS, Singapore, November 2023.
  - *INFORMS Annual Meeting*, Phoenix, AZ, October 2023.
  - *Experimentation and Causal Inference in the Tech Sector*, Stanford, CA, June 2023.
  - *American Causal Inference Conference*, Austin, TX, May 2023.
  - *Data Driven Research Group, Stanford University*, Stanford, CA, October 2022.
1. Off-Policy Evaluation in Partially Observed Markov Decision Processes.
  - *Joint Statistical Meetings*, Toronto, Canada, August 2023.
  - *Joint Statistical Meetings*, Washington, DC, August 2022.
  - *American Causal Inference Conference*, Berkeley, CA, May 2022.
  - *Causal Inference Group, Stanford University*, Stanford, CA, March 2022.
  - *Research in Operations, Information and Technology, Stanford University*, April 2022.

## INTERNSHIP

- *Adobe Research*, San Jose, CA, Summer 2023
- *Quantco*, Boston, MA, Summer 2022
- *Nielsen Department of Data Science*, Shanghai, China, Summer 2018
- *Everbright Securities Research Institute*, Shanghai, China, Summer 2017

## TEACHING

- **ECON293/MGTECON634 Machine Learning and Causal Inference**, Teaching assistant, Spring 2020-2023.
- **MS&E226 Fundamentals of Data Science**, Teaching assistant, Autumn 2021-2022.
- **BST224 Survival Methods in Clinical Research**, Teaching assistant, Summer 2018-2019.

## AWARDS

- Tom Ten Have Award Honorable Mentions, 2023
- V.K. Hsu & Sons Foundation Ltd. Scholarship, 2018
- Hong Kong Polytechnic University Full Entry Scholarship, 2014-2018
- HKSAR Government Scholarship Fund - Reaching Out Award, 2015-2016

## ACADEMIC SERVICES

- Journal Peer Review: *Annals of Statistics* (2), *Journal of American Statistical Association* (2), *Biometrika* (1), *The Journal of the Royal Statistical Society, Series B* (1), *Operations Research* (1), *Management Science* (4), *Econometrica* (1), *Statistics in Medicine* (1), *INFORMS TutORials in Operations Research* (1).
- Conference Peer Review: *NeurIPS* 2023, *ICLR* 2024, *ICML* 2024