Yuchen Hu

CONTACT DETAILS

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RESEARCH INTERESTS

I have broad research interests in data-driven decision making, with a focus on tackling challenges related to management science and marketing using mathematical and statistical models.

EDUCATION

Ph.D. in Management Science & Engineering 2020 – present
Stanford University, Stanford, CA GPA: 4.1/4.3
Thesis Advisor: Stefan Wager

M.S. in Biostatistics 2018 – 2020
Harvard University, Cambridge, MA GPA: 4.0/4.0

B.Sc. in Applied Mathematics 2014 – 2018
Hong Kong Polytechnic University, Hong Kong GPA: 4.0/4.0

JOURNAL ARTICLES

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. Frelier, 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.

PRIPRINTS

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

INVITED TALKS

3. A Decision-Theoretic Framework for Sample Selection in Randomized Experiments.

- *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.

2. Switchback Experiments under Geometric Mixing.

- *The 14th POMS-HK International Conference*, HKUST, Hong Kong, January 2024.
- *IMS Young Mathematical Scientist Forum*, NUS, Singapore, November 2023.
- *INFORMS Annual Meeting*, Phoenix, AZ, October 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.
- *Causal Inference Group, Stanford University*, Stanford, CA, March 2022.

INVITED WORKSHOPS

3. A Decision-Theoretic Framework for Sample Selection in Randomized Experiments.

- *Stanford Data Science Conference*, Stanford, CA, May 2023.

2. Switchback Experiments under Geometric Mixing.

- *Experimentation and Causal Inference in the Tech Sector*, Stanford, CA, June 2023.
- *American Causal Inference Conference*, Austin, TX, May 2023.

1. Off-Policy Evaluation in Partially Observed Markov Decision Processes.

- *American Causal Inference Conference*, Berkeley, CA, May 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

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 SERIVICES

- Journal Peer Review: Annals of Statistics (1), Journal of American Statistical Association (1), Biometrika (1), Operations Research (1), Management Science (3), Econometrica (1), Statistics in Medicine (1).