

DAE WOONG (David) HAM

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Ross School of Business, Room R5328, 701 Tappan Ave, Ann Arbor, MI 48109

BIOSKETCH

I am interested in solving methodological causal inference problems motivated by real-world scenarios in business and social science applications. I was advised by Kosuke Imai and Lucas Janson in the Harvard Statistics Department. I am currently a (tenure-track) Assistant Professor at the Ross Technology and Operations Department.

EMPLOYMENT

University of Michigan Ann Arbor **2024 - Current**
Assistant Professor Ross Business School - Technology and Operations

Netflix Experimentation Team **2020 - Current**
Research collaboration with Netflix experimentation team since 2022. Internship at 2023 summer.

EDUCATION

Harvard University **2019 - Current**
Ph.D. in Statistics

University of California Berkeley **2015 - 2019**
Bachelor of Arts in Applied Mathematics and Statistics

PAPERS

On-going Papers:

M. Ge, **D. Ham**. Variance and MSE Tradeoff for Difference and Difference and Matching

F. Yang, **D. Ham**, S. Jasin. Optimal Allocation in Experiment Rich Regime

M. Abdolmaleki, E. Gong, **D. Ham**, M. Lindon, S. Jasin. Interaction Testing in Multiple Parallel Experimentation

Q. Zhang, **D. Ham**, S. Jasin. Efficient Experimentation with Shrinkage Estimation

Y. Lin, **D. Ham**, I. Bojinov. Benefits and Costs of Adaptive Sampling for Inference

1) **D. Ham**, L. Janson, K. Imai. Using Machine Learning to Test Hypothesis in Conjoint Analysis, *Political Analysis* 2023

2) **D. Ham**, L. Miratrix. Benefits and costs of matching prior to a Difference in Difference analysis when parallel trends does not hold, *Annals of Applied Statistics* 2024

3) **D. Ham**, J. Qie. Hypothesis Testing in Sequentially Sampled Data: ART to Maximize Power Beyond iid Sampling, *TEST* 2023

<https://link.springer.com/article/10.1007/s11749-023-00861-2>

4) **D. Ham**, I. Bojinov, M. Lindon, M. Tingley. Design-Based Confidence Sequence for Anytime-Valid Inference. 2022
Revision at Management Science

5) M. Lindon, **D. Ham**, M. Tingley, I. Bojinov. Anytime-Valid F-Tests for Faster Sequential Experimentation Through Covariate Adjustment, 2022

Revision at JASA

TEACHING

Stat 186 (Harvard Undergraduate Class): Causal Inference, Spring 2022

Stat 286 (Harvard Graduate Class): Causal Inference with Applications, Spring 2021

Stat 139 (Harvard Undergraduate Class): Linear Modeling, Fall 2020

TO 313 (Michigan Ross Required Undergraduate Operations Class): Operations Management: Fall 2024

TEACHING/STUDENTS

Current Students

Fenghua Yang (Ross Ph.D. Student)

Mingxuan Spencer Ge (Ross Ph.D. Student)

Qianxi Zhang (Masters in Statistics)

Yu-Shiou Lin (Columbia IOER Ph.D. Student)