

# DAE WOONG HAM

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Ph.D. Candidate in Department of Statistics, Harvard

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## BIOSKETCH

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I am interested in areas of causal inference specifically in applications and methodologies in the social sciences involving randomization inference. More specifically, I am interested in experimental design for adaptive and sequential tests using design-based inference. I am currently being advised by Kosuke Imai and Lucas Janson in the Statistics Department at Harvard as a fourth year Ph.D. candidate.

## EDUCATION

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

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

## PAPERS

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1) **D. Ham**, L. Janson, K. Imai. Using Machine Learning to Test Hypothesis in Conjoint Analysis, 2022  
<https://arxiv.org/abs/2201.08343>

2) **D. Ham**, L. Miratrix. Benefits and costs of matching prior to a Difference in Difference analysis when parallel trends does not hold, 2022  
<https://arxiv.org/abs/2205.08644>

3) **D. Ham**, J. Qie. Hypothesis Testing in Sequentially Sampled Data: ART to Maximize Power Beyond iid Sampling, 2022  
<https://arxiv.org/abs/2205.02430>

4) **D. Ham**, I. Bojinov, M. Lindon, M. Tingley. Design-Based Confidence Sequence for Anytime-Valid Inference. 2022  
<https://arxiv.org/abs/2210.08639>

5) M. Lindon, **D. Ham**, M. Tingley, I. Bojinov. Anytime-Valid F-Tests for Faster Sequential Experimentation Through Covariate Adjustment, 2022  
<https://arxiv.org/abs/2210.08589>

## AFFILIATIONS

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Harvard Statistics Consulting Group **2020 - Current**  
- Helps Harvard undergrad/grad across all discipline on their applied statistics problems

Harvard Causal Inference Reading group **2019 - Current**  
- Organized by Kosuke Imai, Luke Miratrix, Jose Zubizarreta, and myself

Luke Miratrix's C.A.R.E.S. Lab Group **2019 - Current**  
- <https://cares.gse.harvard.edu/>

Kosuke Imai's Political Science Lab Group **2021 - Current**

## INVITED CONFERENCE

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American Causal Inference Conference (UC Berkeley)

**2022 May**

- D. Ham, L. Miratrix. Quantifying the benefits and costs of matching prior to a Difference in Difference analysis when the parallel trend assumption does not hold

Society for Political Methodology (University of Washington Saint Louis)

**2022 July**

- D. Ham, L. Janson, K. Imai. Using Machine Learning to Test Hypothesis in Conjoint Analysis (2022)

American Political Science Association (Montreal)

**2022 September**

- D. Ham, L. Janson, K. Imai. Using Machine Learning to Test Hypothesis in Conjoint Analysis (2022)

Conference on Digital Experimentation (MIT)

**2022 October**

- D. Ham, I. Bojinov, M. Lindon, M. Tingley. Design-Based Confidence Sequence for Anytime-Valid Inference (2022)

## TEACHING

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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

## CODING

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Proficient in R and Python

Author of CRTConjoint package in the Comprehensive R Archive Network and Github (2022)

CRAN link: <https://cran.r-project.org/web/packages/CRTConjoint/index.html>

Github link: <https://github.com/daewoongham97/CRTConjoint>

*Note: All code, including errors, are written and maintained by me*