

# SOOAHN SHIN

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## EDUCATION

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### Dept. of Government, Harvard University

Ph.D. Candidate (Political Methodology)

Sept. 2019 - present

Committee: Kosuke Imai (chair), Matthew Blackwell, Naijia Liu

Graduate Affiliate, Institute for Quantitative Social Science

### Dept. of Political Science & Int'l Relations, Seoul National University

M.A., International Relations

Aug. 2019

B.A., International Relations *SUMMA CUM LAUDE*

Aug. 2017

## SELECTED AWARDS

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- **The Best Poster Prize (Methods)** 2024  
Annual Meeting of Society for Political Methodology
- ★ **John T. Williams Dissertation Prize** 2024  
Society for Political Methodology
- **Derek C. Bok Award for Distinction in Teaching** Fall 2021; Spring/Fall 2022  
Bok Center for Teaching and Learning, Harvard University
- **First Prize, 2017 KU-KIEP-SBS EU Centre Research Paper Competition** May 2017  
Publication: Shin, Sooahn and Suji Kang. 2017. "Left Coalitions' Reactions to the Emergence of a Far-Right Coalition (Europe of Nations and Freedom) and Brexit in European Parliament" *Korea Institute for International Economic Policy (KIEP) Research Paper Series*, pp. 5-44. (in Korean)

## PUBLICATIONS

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2. Imai, Kosuke, Zhichao Jiang, D. James Greiner, Ryan Halen, Sooahn Shin. "Experimental Evaluation of Algorithm-Assisted Human Decision-Making: Application to Pretrial Public Safety Assessment." (with discussion) *Journal of the Royal Statistical Society, Series A (Statistics in Society)*, 2023.
1. Park, Jong Hee and Sooahn Shin. 2020. "Bayesian Methods in Political Science". Luigi Curini and Robert J. Franzese, Jr. eds., *The SAGE Handbook of Research Methods in Political Science & International Relations*.

## WORKING PAPERS

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### Bayesian Modeling

- "Measuring Issue Specific Ideal Points from Roll Call Votes" (Job Market Paper)
  - ★ *The Best Poster Prize (Methods)* in the 2024 Annual Meeting of Society for Political Methodology
- " $\ell_1$ -based Bayesian Ideal Point Model for Multidimensional Politics" (with Johan Lim and Jong Hee Park; Revise & Resubmit, *JASA Applications and Case Studies*)

### Causal Inference

- "Does AI help humans make better decisions? A methodological framework for experimental evaluation" (with Eli Ben-Michael, D. James Greiner, Melody Huang, Kosuke Imai and Zhichao Jiang)
- "Difference-in-Differences Design with Outcomes Missing Not at Random"
- "Synthetic Control Methods with Missing Pre-treatment Outcomes" (with Naijia Liu and Soichiro Yamauchi)

## SOFTWARE

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- **aihuman** (available on CRAN)  
R package written in Rcpp for an experimental evaluation of causal impacts of algorithmic recommendations on human decisions developed by Imai et al. (*JRSS*, 2023).
- **issueirt**  
R package for issue specific ideal point estimation developed by Shin (working paper). Uses Stan.
- **l1ideal**  
R package for  $\ell_1$ -based multidimensional ideal point estimation developed by Shin et al (working paper).
- **polnet**  
R package for statistical analysis of political networks using biLCM developed by Kim and Kunisky (*Political Analysis*, 2021). Uses EM algorithm, a Variational Inference method, for the estimation.

## TEACHING

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- **Teaching Fellow, Harvard University**  
*Causal Inference with Applications*, Prof. Kosuke Imai (Gov 2003; for graduates) Fall 2023  
*Applied Bayesian Statistics for the Social Sciences*, Prof. Imai (Gov 2017; for graduates) Spring 2023  
*Data Science for the Social Sciences*, Prof. Matthew Blackwell (Gov 50; for undergrad.) Fall 2022  
*Introduction to Machine Learning*, Prof. Adeline Lo (Gov 2018; for graduates) Spring 2022  
*Causal Inference with Applications*, Prof. Matthew Blackwell (Gov 2003; for graduates) Fall 2021
- **Instructor, Math Prefresher, Harvard University** Summer 2023

## PRESENTATIONS

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- *American Political Science Association, Annual Meeting* Paper 2021, 2024
- *Society for Political Methodology, Annual Meeting* Poster 2022, 2023; Paper/poster 2020, 2024
- *Visions in Methodology Conference* Poster 2024
- *American Causal Inference Conference* Poster 2024
- *Midwest Political Science Association, Annual Meeting* Paper 2024
- *Applied Statistics Workshop, Harvard University* Invited speaker 2024
- *NYU CESS Experimental Political Science Conference* Paper 2021
- *Asian Political Methodology, Annual Meeting* Poster 2018, 2019; Paper 2021

## GRANTS AND FELLOWSHIPS

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- **Research Grant** 2023  
Institute for Quantitative Social Science, Harvard University
- **Graduate Student Fellowship** 2019-2022  
Harvard University
- **Graduate Student Scholarship** Apr. 2018  
Alumni of Political Science & Int'l Relations, Seoul National University

## SERVICE

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- **Referee for *American Political Science Review*, *Political Analysis***
- **Applied Statistics Workshop Coordinator** AY 2021/22  
Institute for Quantitative Social Science, Harvard University

Last updated on September 16, 2024