

Soichiro Yamauchi

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EDUCATION

Department of Government, Harvard University Ph.D. Candidate Graduate Affiliate, Institute for Quantitative Social Science Field: Political Methodology Committee: Kosuke Imai (Chair), Stephen Ansolabehere, Matthew Blackwell	2018 – Present
Department of Politics, Princeton University Ph.D. student Field: Formal and Quantitative Methods & American Politics M.A., Politics (2018)	2016 – 2018
Graduate Schools of Law and Politics, The University of Tokyo, Tokyo, Japan M.A., Political Science	2014 – 2016
Faculty of Law, The University of Tokyo, Tokyo, Japan B.A., Law (Public Law)	2010 – 2014

RESEARCH INTEREST

Political Methodology, Causal Inference, American Politics

MANUSCRIPTS

7. Matthew Blackwell and **Soichiro Yamauchi**. “Adjusting for Unmeasured Confounding in Marginal Structural Models with Propensity-Score Fixed Effects.” *Working Paper*.
6. **Soichiro Yamauchi**. “Nonparametric Sensitivity Analysis for Randomized Experiment with Missing Outcomes.” *Working Paper*.
5. Shiro Kuriwaki and **Soichiro Yamauchi**. “Synthetic Area Weighting for Measuring Public Opinion in Small Areas.” *Working Paper*.
4. **Soichiro Yamauchi**. “Difference-in-Differences for Ordinal Outcomes: Application to the Effect of Mass Shootings on Attitudes towards Gun Control.” *Working Paper*.
3. Naoki Egami and **Soichiro Yamauchi**. “Using Multiple Pre-treatment Periods to Improve Difference-in-Differences and Staggered Adoption Designs.” *Working Paper*.
2. Diana Stanescu, Erik H. Wang and **Soichiro Yamauchi**. “Using LASSO to Assist Imputation and Predict Child Wellbeing.” Forthcoming. *Socius: Sociological Research for a Dynamic World*.

1. Jong Hee Park and Soichiro Yamauchi. “Regularized Regression with Change-points: Introducing Hidden Markov Bayesian Bridge Model.” *Working Paper*.

SOFTWARE CONTRIBUTIONS

- **BridgeChange** (Park and Yamauchi 2017): R statistical package that implements sparse linear regression with Bridge prior
- **DIDdesign** (Egami and Yamauchi 2019): R statistical package that implements proposed estimators for the difference-in-differences design
- **orddid** (Yamauchi 2019): R statistical packages that implements the difference-in-differences estimator for the ordinal outcomes
- **emlogit** (Yamauchi 2020): R package for implementing the Expectation and Conditional Maximization (ECM) algorithm for the multinomial logistic regression
- **synthArea** (Kuriwaki and Yamauchi 2020): R package for implementing the synthetic area estimator (Kuriwaki and Yamauchi 2020) for the small area estimation
- **dyRank** (Yamauchi 2020): R package for implementing the hierarchical dynamic rating model for estimating the dynamic rating with rank-ordered data
- **attritionCI** (Yamauchi 2020): R package for constructing sensitivity-aware confidence interval for causal effect estimates under nonignorable missingness in the outcome.
- **bmlogit** (Kuriwaki and Yamauchi 2021): R package for implementing multinomial logistic regression with prediction constraints.

TEACHING

- **Harvard University**
 - Teaching Fellow, Data Science for Politics (DPI-610) Spring 2021
 - Teaching Fellow, Data Analysis and Politics (GOV 51) Fall 2020
 - Teaching Fellow, Topics in Quantitative Methodology (GOV 2003) Spring 2020
 - Teaching Fellow, Causal Inference (GOV 2002) Fall 2019
- **University of Tokyo**
 - Teaching Assistant, Graduate School for Law and Politics, Causal Inference Summer 2019
- **Princeton University**
 - Preceptor, Freshman Scholars Institute, Visualizing Data (POL 245) Summer 2017

AWARDS

- *GSA Peer Mentorship Award* for “graduate students who excel in helping their peers navigate graduate school,” awarded by Government Department Graduate Student Association, December 2020

- *Honorable mention*, John T. Williams Dissertation Proposal Prize, awarded by the Society for Political Methodology, June 2020
- *Distinction in Teaching* for Gov 2002 (Fall 2019) and Gov 51 (Fall 2020) awarded by the Bok Center for Teaching and Learning
- *Best poster award*, The 6th Asian Political Methodology Meeting, January 2019
- *Final prize* for the best score for predicting the material hardship, awarded by **Fragile Family Challenge** (Joint with Erik H. Wang and Diana Stanescu), September 2017
 - The result of our submission is published in *Socius*: Stanescu, Wang and Yamauchi. Forthcoming. “Using LASSO to Assist Imputation and Predict Child Wellbeing”, *Socius*.

GRANTS AND FELLOWSHIPS

- Research Grant, IQSS, Harvard University, \$1,750 May 2020
- Travel Grant, IQSS, Harvard University June 2019
- Graduate Student Fellowship, Harvard University, AY 2018/19
- The Alpheus Thomas Mason '23 Fellowship, Princeton University, AY 2017/18
- Q-APS Fellow, Princeton University AY 2017/18
- Graduate Student Fellowship, Princeton University AY 2016/17
- Dr. Okano Keijiro Scholarship, Yano Tsuneta Kinen-kai AY 2015/16
- Travel Grant, The American Studies Foundation April 2016

PRESENTATIONS

- Applied Statistics Workshop. “**Adjusting for Unmeasured Confounding in Marginal Structural Models with Propensity-Score Fixed Effects.**” Institute for Quantitative Social Science, Harvard University. February 18, 2020.
- Applied Statistics Workshop. “**Difference-in-Differences for Ordinal Outcomes.**” Institute for Quantitative Social Science, Harvard University. April 1, 2020.

Past presentations

- Political Methodology Meeting: Poster 2018, 2019, 2020 (online)
- Asian Political Methodology Meeting: Poster 2016, 2019
- American Political Science Association, Annual Meeting: Paper 2019, 2020
- Midwest Political Science Association, Annual Meeting: Poster 2016; Paper 2016
- Gakushuin University, 2016

REFEREE SERVICE

Referee for *Political Analysis, Research and Politics*