Tomoya Sasaki

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Experience

2024– **Data Scientist, Netflix**, Los Gatos, CA.

2023 **Intern, Experimentation and Causal Inference, Netflix**, Los Gatos, CA.

2018 **Pre-doctoral Research Fellow, Princeton University**, Princeton, NJ.

2016–2018 **Research Fellow, Institute of Statistical Mathematics**, Tachikawa, Tokyo, Japan.

Education

2024 **Massachusetts Institute of Technology**, Cambridge, MA.
Ph.D. in Political Science

2016 **The University of Tokyo**, Tokyo, Japan.
M.A. in Law and Politics

2014 **Keio University**, Tokyo, Japan.
B.A. in Law and Politics

Publication

- "Keyword Assisted Topic Models" (with Shusei Eshima and Kosuke Imai). *American Journal of Political Science*, 68 (2): 730–750.

Working Papers

- "Estimating Changepoints in Time-series Corpus" (with Daichi Mochihashi)
- "Policy Feedback among the Rich: Evidence from Agricultural Subsidy Programs in the United States"
- "Domestic Institutions, Geographic Concentration, and Agricultural Liberalization" (with In Song Kim and Naoi Megumi)

Selected Awards

- *SPM Poster Awards*, Society for Political Methodology (2024)

Recent Conference Presentations

- Society for Political Methodology: 2024, 2023, 2020
- Midwest Political Science Association: 2022, 2018, 2016
- International Political Economy Society: 2020
- American Political Science Association: 2020, 2016
- Asian Political Methodology Annual Meeting (poster): 2019, 2018, 2017

Recent Invited Presentations

- Harvard IQSS Applied Statistics Workshop: 2020
- International Methods Colloquium: 2020 (YouTube link)

Teaching

Massachusetts Institute of Technology

- Quantitative Research Methods II (PhD-level Causal Inference): Teaching Assistant, Spring 2022
- Quantitative Research Methods IV (PhD-level Machine Learning): Teaching Assistant, Spring 2021
- MITx: Fundamentals of Statistics: Instructor (Master's level theoretical statistics), Summer 2021
- Political Methodology Workshop Series Instructor: "Efficient Coding in R", "Introduction to Git and Github", "Creating Replication Materials", "High Performance Computing"
- Undergraduate Research Opportunities Program: Graduate Supervisor, Mentored 6 students

Computer Skills

- R, Stan, Python, C++, SQL (PostgreSQL, Presto, SparkSQL), LaTeX, Git

Statistical Software

- "keyATM: Keyword Assisted Topic Models" (with Shusei Eshima and Kosuke Imai). Available through CRAN and the package website `https://keyatm.github.io/keyATM/`