Yuki Shiraito

Curriculum Vitae

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Contact Information

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Positions

Assistant Professor, Department of Political Science, University of Michigan, 2018-present.
    Faculty Associate, Center for Political Studies, 2018-present.
    Faculty Member, Center for Japanese Studies, 2018-present.
        Associate Director, 2021-present.
    Associated Faculty, Michigan Institute for Data Science, 2018-present.

Postdoctoral Scholar, Program in Quantitative Social Science, Dartmouth College, 2017-2018.

Education

Ph.D. in Politics, Princeton University, 2017.

M.A. in Politics, Princeton University, 2012.

LL.M., The University of Tokyo, 2009.

LL.B., The University of Tokyo, 2007.

Fields of Interest

Quantitative methods, political economy, international relations.

Peer Reviewed Articles

"Large-scale Text Processing Pipeline with Apache Spark." 2016. *IEEE International Conference on Big Data*, Washington, DC, pp. 3928-3935 (with Alexey Svyatkovskiy, Kosuke Imai, and Mary Kroeger).

"Coethnic Bias and Wartime Informing." 2015. *Journal of Politics*, Vol. 77, No. 3 (July), pp. 833-848 (with Jason Lyall and Kosuke Imai).

"Neural Correlate of Human Reciprocity in Social Interactions." 2013. *Frontiers in Neuroscience*, Vol. 7 (with Sakaiya, Shiro, Junko Kato, Hiroko Ide, Kensuke Okada, Kouji Takano, and Kenji Kansaku).

Working Papers

"Latent Heterogeneity in Item Response Models: A Non-parametric Bayesian Model to Address Differential Item Functioning" (with James Lo and Santiago Olivella).

"The Clash of Traditional Values: Attitudes toward a Male-line Monarchy under a Succession Crisis" (with Guoer Liu and Kenneth Mori McElwain).

"Multiple Hypothesis Testing in Conjoint Analysis" (with Guoer Liu).

"A Nonparametric Bayesian Model for Gradual Structural Changes: The Intergenerational Chinese Restaurant Processes" (with Nuannuan Xiang).

"International Law as Legal Obligations or Global Standards?" (with Saki Kuzushima and Kenneth Mori McElwain).

"Improving Probabilistic Models of Text Classification via Active Learning" (with Mitchell Bosley, Saki Kuzushima, and Ted Enamorado).

"Uncovering Heterogeneous Treatment Effects."

"Strengtening Weak Instruments by Modeling Compliance" (with Marc Ratkovic).

"Policy Positions in Mixed Member Electoral Systems: Evidence from Japan" (with Shigeo Hirano, Kosuke Imai, and Masaki Taniguchi).

Work in Progress

"Paragraph-citation Topic Models for Corpora with Citation Networks" (with ByungKoo Kim and Saki Kuzushima)

"Probabilistic Modeling of Plagiarism" (with Mary A. Kroeger and Kosuke Imai).

"Measuring Policy Diffusion through the Text Similarity across Millions of Legislative Bills" (with Mary A. Kroeger, and Kosuke Imai).

Statistical Software

"`endorse`: Bayesian Measurement Models for Analyzing Endorsement Experiments" (with Kosuke Imai and Bryn Rosenfeld) available through the Comprehensive R Archive Network. 2012.

"`poisbinom`: A Faster Implementation of the Poisson-Binomial Distribution" (with Santiago Olivella) available through the Comprehensive R Archive Network. 2017.

Publications in Japanese

"Honsho no mokuteki to kōsei [Introduction]." 2008. In *Koizumi seiken no kenkyu [The Koizumi Regime]* (the Ikuo Kabashima Seminar, ed.), Tokyo: Bokutakusha.

"Koizumi seiken ki no shinioritei rūru to habatsu [The Seniority Rule and Factions in the Liberal Democratic Party during the Koizumi Administration]." 2008. In *Koizumi seiken no kenkyu [The Koizumi Regime]* (the Ikuo Kabashima Seminar, ed.), Tokyo: Bokutakusha.

External Invited Presentations

Japanese Politics Online Seminar Series.
"The Clash of Traditional Values: Attitudes toward a Male-line Monarchy under a Succession Crisis." March 2021.

Department of Political Science Speaker Series, Washington University in St. Louis.
"A Nonparametric Bayesian Model for Gradual Structural Changes: The Intergenerational Chinese Restaurant Processes." March 2021.

Causal Inference and Data Science Seminar, Waseda University.
"Nonparametric Bayesian Approaches to Latent Heterogeneity in Political Science Data." April 2019.

The International Methods Colloquium. Rice University.
"Uncovering Heterogeneous Treatment Effects." March 2017.

New Faces in Political Methodology. Pennsylvania State University.
"Strengthening Weak Instruments by Modeling Compliance." April 2014.

Conference Presentations

Midwest Political Science Association Annual Meeting (Virtual, April 2021)
"Improving Probabilistic Models of Text Classification via Active Learning" (with Mitchell Bosley, Saki Kuzushima, and Ted Enamorado).

Asian Political Methodology Meeting (Virtual, January 2021)
"Multiple Hypothesis Testing in Conjoint Analysis" (with Guoer Liu).

Japan Society for Quantitative Political Science Winter Meeting (Virtual, January 2021)
"International Law as Legal Obligations or Global Standards?" (with Saki Kuzushima and Kenneth Mori McElwain).

Latin American Political Methodology Meeting (Virtual, November 2020)
"A Nonparametric Bayesian Model for Gradual Structural Changes: The Intergenerational Chinese Restaurant Processes" (with Nuannuan Xiang).

American Political Science Association Annual Meeting (Virtual, September 2020)
"Improving Probabilistic Models of Text Classification via Active Learning" (with Mitchell Bosley, Saki Kuzushima, and Ted Enamorado).

The Society for Political Methodology Annual Summer Meeting (Virtual, July 2020)
"A Nonparametric Bayesian Model for Gradual Structural Changes: The Intergenerational Chinese

Restaurant Processes" (with Nuannuan Xiang). Paper Presentation.
"Paragraph-Citation Topic Models for Corpora With Citation Networks" (with ByungKoo Kim and Saki Kuzushima). Poster Presentation.

Japan Society for Quantitative Political Science Winter Meeting (Tokyo, January 2020)
"Modeling Gradual Changes in Panel Data: The Intergenerational Chinese Restaurant Process" (with Nuannuan Xiang).

Asian Political Methodology Meeting (Kyoto, January 2019)
"Latent Heterogeneity in Item Response Models: Model-Based Approaches to Differential Item Functioning" (with James Lo and Satiago Olivella)

Society for Political Methodology, Annual Summer Meeting (Provo, July 2018)
"Measuring Policy Diffusion through the Text Similarity across Millions of Legislative Bills." Poster Presentation.

Society for Political Methodology, Annual Summer Meeting (Madison, July 2017)
"Probabilistic Models of Plagiarism: An Application to Policy Diffusion." Poster Presentation.

Joint Quantitative Political Science Conference for Asia and Australasia (Sydney, January 2017)
"Uncovering Heterogeneous Treatment Effects."

Society for Political Methodology, Annual Summer Meeting (Houston, July 2016)
"A Bayesian Nonparametric Approach to Causal Heterogeneity." Poster Presentation.

Society for Political Methodology, Annual Summer Meeting (Rochester, July 2015)
"Topical N-gram Citation Model." Poster Presentation.

Midwest Political Science Association, Annual Meeting (Chicago, April 2014)
"Strengthening Weak Instruments by Modeling Compliance" (with Marc Ratkovic).

American Political Science Association, Annual Meeting (Chicago, August 2013)
"Dropping a Dime: Coethnic Bias and Wartime Informing" (with Jason Lyall and Kosuke Imai).

Midwest Political Science Association, Annual Meeting (Chicago, April 2013)
"A Reassessment of the Resource Curse: A Bayesian Dynamic Analysis of Panel Data" (with Devin Incerti and Gabriel Lopez-Moctezuma).

Society for Political Methodology, Annual Summer Meeting (Chapel Hill, July 2012)
"A Reassessment of the Resource Curse: A Bayesian Dynamic Analysis of Panel Data." Poster Presentation.

Research Grants

Faculty Research Grant, Center for Japanese Studies, University of Michigan (2021–2022), "Public Attitudes toward the International Community in Japan," $20,996.

Faculty Grant, Weiser Center for Emerging Democracies, University of Michigan (2020), "Autocratic Legislative Speeches: Evidence from Kyrgyzstan," $3,000.

Faculty Research Grant, Center for Japanese Studies, University of Michigan (2020–2021), "Japanese Public Attitudes towards Gender-related Social Conventions," $29,985.

Roy Pierce Scholars Fund, Center for Political Studies, University of Michigan (2019), Faculty Sponsor (for Guoer Liu), $6,000.

Honors, Awards, and Fellowships

The Society for Political Methodology Poster Award at the annual summer Methodology Meeting, 2015.

Princeton Politics Department Formal and Quantitative Methods Graduate Fellowship, 2013–2017.

Dean's Fund for Scholarly Travel, Princeton University, 2013.

Stafford Funding for Conference Travel, Department of Politics, Princeton University, 2013.

Graduate Student Felloship, Princeton University, 2010-2017.

Yoshida Scholarship Foundation
   (competitive scholarship awarded to Japanese students enrolled in foreign universities)
   Fellowship, 2010-2012
   Research grant, 2012-2013

Teaching

Courses at the University of Michigan

POLSCI 798 Advanced Topics in Quantitative Methodology
   Instructor, University of Michigan, Winter 2019, 2020, and 2021

POLSCI 599 Statistical Methods in Political Research I
   Instructor, University of Michigan, Fall 2018, 2019, and 2020

POLSCI 489-007 Introduction to Computational Political Science
   Instructor, University of Michigan, Winter 2020 and 2021

Other Teaching Experience

Advanced Quantitative Social Science
   Assistant Instructor, the University of Tokyo, Summer 2017 (Professor Kosuke Imai)

POL 349 Political Economy (Undergraduate)
   Assistant Instructor, Princeton University, Fall 2014 (Professor Thomas Romer)

Politics Math Camp (Graduate)
   Instructor, Princeton University, Summer 2014

POL 345 Quantitative Analysis and Politics (Undergraduate)
   Assistant Instructor, Princeton University, Fall 2013 (Professor Marc Ratkovic)

Politics Math Camp (Graduate)
   Instructor, Princeton University, Summer 2013

POL575 Formal Political Analysis I (Graduate)
   Assistant Instructor, Princeton University, Spring 2013 (Professor Adam Meirowitz)

POL573 Quantitative Analysis III (Graduate)
   Assistant Instructor, Princeton University, Fall 2012 (Professor Kosuke Imai)

Technical Workshops

Workshop Instruction

"Writing Papers Using LaTeX," Program for Quantitative and Analytical Political Science, Princeton University, October 2012.

Statistical Consulting

HackerSpaces/CoderSpaces at Institute for Social Research (communal hacking opportunities for members of the ISR community interested in computational social science research)
    Faculty Host, Winter 2019 and 2020

Statistical and Formal Theory Consulting (consulting service to assist faculty members and students offered by the Program for Quantitative and Analytical Political Science at Princeton University)
    Consultant, Fall 2012 and Spring 2013

Advising

Current Graduate Students

Mitchell Bosley

ByungKoo Kim

Saki Kuzushima

Guoer Liu

Irene Morse

Nuannuan Xiang

Past Graduate Students

Jerry Qiushi Yu (defended in March 2021)

Undergraduate Honors Thesis

Lorraine Furtado (class of 2020), "Using Supervised Learning Methods to MeasureWomen's Rights: An Analysis of the Language of Reproductive Rights Briefs"
    Recipient of the *Frank Grace Award for Outstanding Honors Thesis*, the 2020 *Pamela J. Mackintosh Undergraduate Research Awards* (Multi-term, 1st Place), and *Patricia Kennedy Honors Graduation Prize*.

Service

Member, Undergraduate Affairs Committee, Department of Political Science (2019-2020)

Member, Executive Committee, Center for Japanese Studies (2019-present)