

RESEARCH INTERESTS

Causal inference under model uncertainty (covariate selection, robustness reporting, post-selection inference); survey methodology and measurement error in panel surveys; social-science methodology and statistical models for social data; social stratification and the life course; gender inequality; residential mobility and neighbourhood effects; social policy and natural experiments; care work and long-term care.

APPOINTMENTS

2025–	Assistant Professor, Faculty of Sociology, Toyo University
2018–2025	Assistant Professor, Institute of Social Science, The University of Tokyo
2017–2018	Assistant Professor, Graduate School of Human Sciences, Osaka University
2014–2017	Research Fellow (DC1), Japan Society for the Promotion of Science

EDUCATION

2017	PhD in Human Sciences, Osaka University (doctoral programme 2014–2017)
2014	MA in Human Sciences, Osaka University (2012–2014; Graduate School of Economics, 2011–2012)
2011	BA in Commerce, Faculty of Business and Commerce, Keio University (2007–2011); exchange year in econometrics, University of Oslo (2009–2010)

PUBLICATIONS

Peer-reviewed articles

- Okubo, S. (2024). 潜在的結果モデルに基づいたパネル条件付けバイアスの識別仮定と方法：パネル追加ランダムサンプリングを用いた自然実験 [Identification assumptions and strategies for panel conditioning bias based on the potential outcomes model: a natural experiment with additional random sampling]. *Advances in Social Research* (社会と調査), 33, 58–70. [Japanese]
- Okubo, S. (2017). 介護労働における早期離職率の規定要因：「1年目の壁」はいかにして超えられるか [Solving early turnover in care work: evidence from Japan]. *Journal of Welfare Sociology*, 14, 147–167. [Japanese]
- Okubo, S. (2017). 介護保険サービスにおける介護労働と賃金：賃金規定要因は分位点により異なるのか [Variation in wage inequality across the care workers' earnings distribution: evidence from quantile regression]. *Soshioroji*, 61(3), 3–22. [Japanese]
- Okubo, S. (2016). 介護労働における就業継続意向の規定要因：“Prisoner of Love”仮説の検証 [Prisoner of love in care work? Evidence from Japan]. *Kansai Sociological Review*, 15, 46–59. [Japanese]
- Okubo, S. (2011). 福祉国家制度のダイナミクス：福祉国家研究の発展と制度変化メカニズム [Dynamics of the welfare state]. *Mita Business Review*, 32, 53–75. [Japanese]

Invited articles and tutorials

- Okubo, S. (2023). 社会学における機械学習の応用 [Applications of machine learning in sociology]. *Advances in Social Research*, 31, 13–19. [invited; Japanese]
- Okubo, S. (2023). 統計的因果推論入門：関連が因果となる条件 [Introduction to statistical causal inference: association meets causation]. *Sociological Theory and Methods*, 38(1), 169–180. doi:10.11218/ojams.38.169 [invited; Japanese]
- Okubo, S. (2021). パネルデータ分析における固定効果モデルの取扱説明書 [How to use fixed effects models with panel data]. *Journal of Social Science* (Institute of Social Science, The University of Tokyo), 72(1), 55–68. [invited; Japanese]
- Okubo, S. (2019). 因果推論の工具箱 [Tools of causal inference]. *Sociological Theory and Methods*, 34(1), 20–34. [invited; Japanese]
- Okubo, S. (2016). 因果推論の理論と分析手法 [Causal inference in theory and practice]. *Annals of Human Sciences* (Osaka University), 37, 35–50. [Japanese]

- Okubo, S. (2014). 制度研究のフロンティア：ゲーム理論・因果推論・操作変数法 [Frontiers of institutional analysis: game theory and causal inference]. *Annals of Human Sciences*, 35, 19–37. doi:10.18910/27116 [Japanese]
- Okubo, S. (2013). 制度変化はいかに起こりうるか：社会保険制度の発展構造分析に向けての試論 [How does institutional change occur? Towards a structural analysis of social insurance development in Japan]. *Annals of Human Sciences*, 34, 73–91. doi:10.18910/24969 [Japanese]

Books and chapters

- Okubo, S. & Kurokawa, H. (translators) (2023). 『傾向スコア』 [Japanese translation of Bai, H. & Clark, M. H., *Propensity Score Methods and Applications*]. Kyoritsu Shuppan, x+163 pp. ISBN 978-4-320-11414-2.
- Okubo, S. (2020). ライフコースにおける男女間収入格差の生成：不平等と階層に着目して [The making of the gender income gap over the life course]. In H. Ishida, S. Arita & S. Fujihara (eds.), 『人生の歩みを追跡する：東大社研パネル調査でみる現代日本社会』 [Tracing Life Courses: Contemporary Japan through the JLPS Panel Surveys]. Keiso Shobo. [Japanese]

Working and discussion papers

- Fujihara, S., Kawata, K., Nakabayashi, M. & Okubo, S. (2023). Different measures, different perceptions: a survey on measure sensitivity of inequality perception from Japan. *CSRDA Discussion Paper Series*, No. 66.
- Kezuka, K., Okubo, S. & Takikawa, H. (2023). Does single-sex education strengthen attitudes toward gender roles? A causal inference approach using Japanese survey data. *CSRDA Discussion Paper*, No. 48.
- Okubo, S. (2020). パネル条件付けバイアスの新たな識別方法 [Identification assumptions of panel conditioning bias]. *ISS Panel Survey Discussion Paper Series*.
- Okubo, S., Kawata, K., Yin, T. & Xu, Z. (2019). Wage stratification between care workers and non-care workers in Japan: evidence from 2001–2017. *RIETI Discussion Paper* 19-E-081.
- Okubo, S., Kawata, K., Yin, T. & Zhong, R. (2019). Income stratification of potential care workers among internal migrants in China. *RIETI Discussion Paper* 19-E-079.
- Okubo, S. (2018). Causal effects of time-constant variables with counterfactual mediation modeling: evidence from the gender wage gap in Japan. OSF working paper.
- Okubo, S. (2018). What affects survey nonresponse? Bayesian LASSO estimation with high-dimensional data. OSF working paper.
- Okubo, S. (2018). How do we solve early turnover in care work? Evidence from Japan. *Osaka Human Sciences*, 4, 157–174.

Survey reports (Japanese Life Course Panel Surveys)

With H. Ishida, K. Ishida, M. Matano, S. Miwa and Y. Yonekura: annual analytical reports of the JLPS in the *ISS Panel Survey Discussion Paper Series* (nos. 112, 121, 128, 143, 151, 165, 174; 2019–2024) and two-part reports in *Chūō Chōsa-hō* (nos. 743–744, 755–756, 768–769, 780–781, 792–793, 805, 816–817; 2019–2025), covering health, employment, caregiving, migration, wellbeing, and life under COVID-19. Also: Okubo, S. (2015), 社会意識と主観的健康の基礎的分析 [Social consciousness and health], in *Report of the 2015 SSP Survey*, 55–62.

Book reviews

- Okubo, S. (2025). Review of T. Hayashi, 『はじめての統計的因果推論』. *Advances in Social Research*, 34, 92. [Japanese]
- Okubo, S. (2020). Review of M. Salganik, *Bit by Bit* (Japanese translation). *Sociological Theory and Methods*, 35(1), 166. [Japanese]

SOFTWARE

2026 dagmv 0.1.0 — causally disciplined multiverse analysis in R (github.com/sokubo/dagmv).

in prep. panelcond — refreshment-sample designs for panel conditioning in R.

GRANTS

Principal investigator

2026–2030 JSPS KAKENHI Grant-in-Aid for Scientific Research (C) 26K05332, *A large-scale analysis of dual caregiving across childcare and elder care*.

2022–2026 JSPS KAKENHI Early-Career Scientists 22K13525, *Diagnosis, impact, and correction of measurement error in social surveys*.

2019–2022	JSPS KAKENHI Early-Career Scientists 19K13907, <i>An empirical study of care suppliers in a super-ageing society</i> .
2017–2019	JSPS KAKENHI Research Activity Start-up 17H06829, <i>Cooperative behaviour in medical and long-term-care organizations: causal inference and field experiments</i> .
2014–2017	JSPS Grant-in-Aid for JSPS Fellows, <i>Dynamics of the long-term care insurance system</i> .

Co-investigator

2018–2023	JSPS KAKENHI Scientific Research (A) 18H03630 (PI: M. Nakabayashi), perceptions and preferences over employment and social security.
2018–2021	JSPS KAKENHI Challenging Research (Exploratory) 18K18594 (PI: S. Fujihara), cross-domain inequality research with official statistics.
2017–2020	Seikei University Center for Asian and Pacific Studies (PI: D. Watanabe), global ageing and the life course.

AWARDS

2025	15th <i>Advances in Social Research</i> Award, Japanese Association for Social Research
2015	Encouragement (Best Paper) Award, 66th Meeting of the Kansai Sociological Association
2014	Graduate School of Human Sciences Award, Osaka University
2011	32nd Commerce Society Award, Keio University

PRESENTATIONS

Invited

- Statistical causal inference in sociology. 72nd Meeting, Japanese Association for Mathematical Sociology, March 2022.
- Data analysis and policy making. 25th Annual Meeting, Public Policy Studies Association Japan, June 2021.
- Factors affecting survey nonresponse: SSP 2015. Korea–Japan Joint Workshop on Frontiers of Social Survey Research, February 2018.
- Causal inference and machine learning. 90th Annual Meeting, Japan Sociological Society, November 2017.
- Quantitative sociology: prediction and causal inference. Kansai Sociological Association, May 2017.

Conference presentations

- Model uncertainty in data analysis. 96th Annual Meeting, Japan Sociological Society, October 2023.
- Community and health behavior (poster). 72nd Meeting, Japanese Association for Mathematical Sociology, March 2022.
- Risk perception of COVID-19 and prevention of infection. 94th Annual Meeting, Japan Sociological Society, November 2021.
- Does single-sex education reinforce gender role division? 93rd Annual Meeting, Japan Sociological Society, November 2020.
- How does access to long-term care services affect employment? (poster). Japanese Economic Association Autumn Meeting, October 2020.
- Gendered socialization of gender stereotype (poster); Who moves in the area? (poster). 69th Meeting, Japanese Association for Mathematical Sociology, September 2020.
- Effects of informal care on mental health. 92nd Annual Meeting, Japan Sociological Society, October 2019.
- Wage stratification and inequality among occupational classes (poster). 68th Meeting, Japanese Association for Mathematical Sociology, August 2019.
- Informal care and labor market outcomes: evidence from Japan. 11th International Convention of Asia Scholars, July 2019.
- Explaining causal mechanisms in panel data. 91st Annual Meeting, Japan Sociological Society, September 2018.
- Panel conditioning? Evidence from a Japanese survey; Why do you prefer that model the best? (poster). 66th Meeting, Japanese Association for Mathematical Sociology, August 2018.
- Decomposition of inequality by counterfactual mediation modeling. XIX ISA World Congress of Sociology, Toronto, July 2018.

- Quantitative social science and public policy. 16th Annual Meeting, Japan Welfare Sociology Association, June 2018.
- Predicting survey nonresponse in CAPI (poster). 65th Meeting, Japanese Association for Mathematical Sociology, March 2018.
- Nonresponse analysis with Bayesian LASSO (poster). 64th Meeting, Japanese Association for Mathematical Sociology, September 2017.
- Nonresponse analysis in a CAPI survey. 45th Annual Meeting, Behaviormetric Society, September 2017.
- Nonresponse in the SSP project. SSP Project Conference, March 2017.
- Social security and location of death. 61st Meeting, Japanese Association for Mathematical Sociology, March 2016.
- Motherhood penalty in Japan. SSM Research Workshop, March 2016.
- Where to die? 50th Meeting, Kansai Society for Mathematical Sociology Research, February 2016.
- Institutional isomorphism in care insurance premiums (poster). Research Design for Causal Inference, Northwestern University, July 2015.
- The causal effect of care-work qualifications on earnings. 13th Annual Meeting, Japan Welfare Sociology Association, June 2015.
- Causal inference and sociology. 66th Meeting, Kansai Sociological Association, May 2015.
- Estimation of quantile treatment effects (poster). 59th Meeting, Japanese Association for Mathematical Sociology, March 2015.
- Variation in wage premium across care workers. 42nd Meeting, Kansai Society for Mathematical Sociology Research, October 2014.
- Revisiting path dependence in welfare states. XVIII ISA World Congress of Sociology, Yokohama, July 2014.
- Why do care workers leave their jobs? 12th Annual Meeting, Japan Welfare Sociology Association, June 2014.
- Towards a structural analysis of the development of long-term care insurance. 61st Autumn Conference, Japanese Society for the Study of Social Welfare, September 2013.
- Dynamics of the medical system for the late-stage elderly. 11th Conference, Japan Welfare Sociology Association, June 2013.
- Mechanisms of the public long-term care insurance system. 64th Conference, Kansai Sociological Association, May 2013.

TEACHING

2025– Toyo University, Faculty of Sociology — social statistics and quantitative methods.
 Keio University, Faculty of Law — Social Research I. Ryukoku University, Faculty of Sociology — Social Statistics I and II (certified Social Researcher curriculum). Kwansei Gakuin University, School of Sociology — Data Analysis (Advanced), Intermediate Seminar.
 Certified Professional Social Researcher (専門社会調査士, No. A-000390).

SERVICE

2026– Research Activities Committee, Japanese Association for Social Research
 2018– Implementation and Steering Committees, Japanese Life Course Panel Surveys, Institute of Social Science, The University of Tokyo
 2019–2021 Research Activities Committee, Japanese Association for Mathematical Sociology
 2017–2019 Project member, Research Institute of Economy, Trade and Industry (RIETI)
 Memberships: American Sociological Association · International Sociological Association · Japan Sociological Society · Japanese Association for Mathematical Sociology · Behaviormetric Society.