

Kaiji Motegi, Ph.D.

CONTACT INFORMATION	Graduate School of Economics Kobe University 2-1 Rokkodai-cho Nada, Kobe, Hyogo 657-8501 Japan	E-mail: motegi@econ.kobe-u.ac.jp Website: http://www2.kobe-u.ac.jp/~motegi
EMPLOYMENT	<p>Associate professor, Graduate School of Economics, Kobe University, Kobe, Hyogo, Japan April 2020 – present.</p> <p>Tenure-track associate professor, Graduate School of Economics, Kobe University, Kobe, Hyogo, Japan October 2016 – March 2020.</p> <p>Assistant professor (without tenure), Faculty of Political Science and Economics, Waseda University, Tokyo, Japan April 2015 – September 2016.</p> <p>Research associate, Faculty of Political Science and Economics, Waseda University, Tokyo, Japan June 2014 – March 2015.</p>	
EDUCATION	<p>Department of Economics, University of North Carolina at Chapel Hill, North Carolina Doctor of Philosophy in Economics, May 2014</p> <ul style="list-style-type: none"> - Dissertation topic: “Granger causality in mixed frequency time series” - Advisor: Eric Ghysels - Committee members: Michael Aguilar, Saraswata Chaudhuri, Neville Francis, Jonathan B. Hill <p>Graduate School of Economics, Waseda University, Tokyo, Japan M.A. in Economics, March 2009</p> <ul style="list-style-type: none"> - Highest GPA out of 16 students <p>School of Political Science and Economics, Waseda University, Tokyo, Japan B.A. in Economics, March 2008</p> <ul style="list-style-type: none"> - Highest GPA out of 1079 students 	
RESEARCH INTERESTS	<ul style="list-style-type: none"> - Econometrics - Time series analysis 	
BOOKS	<ul style="list-style-type: none"> - H. Yamashita, T. Takizawa, J. Inaida, H. Uesu, Y. Okuda, S. Kanagawa, S. Shimizu, H. Chung, K. Shinkai, M. Tomita, E. Tsuda, K. Nagashima, Y. Hashiguchi, K. Motegi, and M. Morioka “Fuzzy Theory” (2010). Tokyo: Kyoritsu Shuppan Co., Ltd., in Japanese. Received <i>2011 Outstanding Book Award</i>, Japan Society for Fuzzy Theory and Intelligent Informatics. 	

- ACCEPTED PAPERS
1. E. Ghysels, J. B. Hill, and K. Motegi. “Testing for Granger causality with mixed frequency data”. **Journal of Econometrics**, vol. 192, May 2016, pp. 207-230.
 2. K. Motegi and A. Sadahiro. “Sluggish private investment in Japan’s Lost Decade: Mixed frequency vector autoregression approach”. **North American Journal of Economics and Finance**, vol. 43, January 2018, pp. 118-128.
 3. J. B. Hill and K. Motegi. “Testing the white noise hypothesis of stock returns”. **Economic Modelling**, vol. 76, January 2019, pp. 231-242.
 4. S. Hamori, K. Motegi, and Z. Zhang. “Calibration estimation of semiparametric copula models with data missing at random”. **Journal of Multivariate Analysis**, vol. 173, September 2019, pp. 85-109.
 5. E. Ghysels, J. B. Hill, and K. Motegi. “Testing a large set of zero restrictions in regression models, with an application to mixed frequency Granger causality”. **Journal of Econometrics**, vol. 218, October 2020, pp. 633-654.
– Received the **33rd JSS Ogawa Award**.
 6. J. B. Hill and K. Motegi. “A max-correlation white noise test for weakly dependent time series”. **Econometric Theory**, vol. 36, October 2020, pp. 907-960.
 7. K. Motegi, X. Cai, S. Hamori, and H. Xu. “Moving average threshold heterogeneous autoregressive (MAT-HAR) models”. **Journal of Forecasting**, vol. 39, November 2020, pp. 1035-1042.
 8. S. Hamori, K. Motegi, and Z. Zhang. “Copula-based regression models with data missing at random”. **Journal of Multivariate Analysis**, vol. 180, November 2020, article #104654.
 9. C. Ai, O. Linton, K. Motegi, and Z. Zhang. “A unified framework for efficient estimation of general treatment models”. **Quantitative Economics**, vol. 12, July 2021, pp. 779-816.
 10. K. Motegi and Y. Iitsuka. “Inter-regional dependence of J-REIT stock prices: A heteroscedasticity-robust time series approach”. **North American Journal of Economics and Finance**, vol. 64, January 2023, article #101840.
 11. K. Motegi and S. Woo. “A note on the exponentiation approximation of the birthday paradox”. **Communications in Statistics - Theory and Methods**, DOI: 10.1080/03610926.2023.2245086
- SUBMITTED PAPERS
1. J. W. Dennis and K. Motegi (2022). “Asymptotic properties of spurious regression and random walks with generalized drifts”. *Revised and resubmitted*.
 2. K. Motegi, J. W. Dennis, and S. Hamori (2022). “Conditional Threshold Autoregression (CoTAR)”. *Submitted*.
 3. K. Motegi and J. W. Dennis (2022). “Midastar: Threshold autoregression with data sampled at mixed frequencies”. *Submitted*.
 4. K. Motegi and S. Hamori (2023). “Conditional threshold effects of stock market volatility on crude oil market volatility”. *Submitted*.
 5. K. Motegi and S. Hayashi (2023). “A groupwise approach to the birthday paradox”. *Submitted*.
 6. K. Motegi and J. W. Dennis (2024). “An over-rejection puzzle of bootstrap average tests for the no-threshold-effect hypothesis”. *Submitted*.
- BOOK REVIEWS
1. K. Motegi (2019). Keizaigaku no karisuma teki shidosha ni yoru nyumonsho. [Review of the book *Keizai Sugaku Nyumon no Nyumon*, by H. Tanaka]. *ΑΣΤΕΙΟΝ*, vol. 90, pp. 224-228, edited by Suntory Foundation and ΑΣΤΕΙΟΝ Editorial Board.
- HONORS AND AWARDS
- Third Hosoya Prize, Graduate School of Economics and Management, Tohoku University, November 2021.
 - Best Young Researcher Award, Kobe University, January 2020.
 - 33rd JSS Ogawa Award, the Japan Statistical Society, September 2019.
 - Best Poster Presentation Award, 11th Spring Meeting of the Japan Statistical Society, March 2017.

- Best Poster Presentation Award, 10th Spring Meeting of the Japan Statistical Society, March 2016.
- Waseda University Teaching Award, Spring 2015.
Introduction to Microeconomics (Undergraduate).
- JJSM Competition Session Presentation Award, 2015 Japanese Joint Statistical Meeting.
- JJSM Competition Session Best Presentation Award, 2014 Japanese Joint Statistical Meeting.
- Department's Best TA in a Graduate Level Course Award, Department of Economics, UNC Chapel Hill, 2014.
- Outstanding Book Award, Japan Society for Fuzzy Theory and Intelligent Informatics, 2011.

RESEARCH GRANTS AND SCHOLARSHIP

- JSPS KAKENHI, Grant-in-Aid for Challenging Research (Exploratory), Grant Number 23K17555, June 2023–March 2026.
“Modelling and testing threshold effects with mixed frequency data”.
- Research Grant, The Murata Science Foundation, August 2023–July 2024.
“Modelling and forecasting the volatility of energy prices”.
- Research Grant, Japan Securities Scholarship Foundation, October 2022–September 2023.
“Modelling and testing threshold effects in mixed frequency time series”.
- Grants for Social Science, Nomura Foundation, October 2022–September 2024.
“Time series prediction of economic and COVID-19 statistics”.
- Research Grant, Ishii Memorial Securities Research Promotion Foundation, August 2020–March 2022.
“Modelling threshold effects in financial time series”.
- Grant-in-Aid for Research, Zengin Foundation for Studies on Economics and Finance, April 2020–March 2022.
“Time series analysis on the regional spillover effects of REIT prices”.
- JSPS KAKENHI, Grant-in-Aid for Early-Career Scientists, Grant Number 19K13670, April 2019–March 2022.
“An innovative approach for unifying causal inference, missing data analysis, and copula models”.
- Research Grant, Nihon Hoseigakkai Foundation, April 2018–March 2019.
“Analysis of the interdependence of financial variables based on new copula models”.
- Research Grant, Japan Center for Economic Research (JCER), April 2018–March 2020.
“Unifying copula models, missing data analysis, and treatment effects”.
- Grant for Research, Mitsubishi UFJ Trust Scholarship Foundation, April 2017–March 2018.
“A new approach for predicting economic time series”.
- Research Grant, Kikawada Foundation, April 2017–March 2019.
“A new approach for predicting economic time series”.
- Grants for Social Science, Nomura Foundation, April 2017–March 2019.
“A new approach for predicting economic time series”.
- JSPS KAKENHI, Grant-in-Aid for Young Scientists (B), Grant Number 16K17104, April 2016–March 2019.
“Statistical analysis of mixed frequency data: Theory and macroeconomic applications”.
- Suntory Foundation Grant for Young Researchers, Suntory Foundation, April 2016–March 2017.
“Statistical analysis of mixed frequency data”.
- Yoshida Scholarship (Overseas Study Program for Japanese Students), Yoshida Scholarship Foundation, 2010–2013.
- Fulbright Scholarship (Graduate Study), Institute of International Education and Japan-U.S. Educational Commission, 2009–2014.

CONFERENCES, SEMINARS, WORKSHOPS (SELECTED)

- 99th Annual Conference, WEAI, virtual session, June 2024.
- International Conference on Time Series Econometrics (ICTSE), Kobe University, March 2024 (organizer, chair, and speaker).

- EcoSta 2023, Waseda University, August 2023 (scientific program committee member and speaker).
- 98th Annual Conference, WEAI, Zoom Webinar, July 2023.
- 17th International Conference, WEAI, Zoom Webinar, April 2023.
- 7th Annual International Conference on Applied Economics in Hawaii, Zoom Webinar, November 2022 (organizer and speaker).
- 2022 Asian Meeting of the Econometric Society in East and South-East Asia, Keio University and University of Tokyo, August 2022.
- 16th International Symposium on Econometric Theory and Applications (SETA2022), Zoom Webinar, July 2022.
- EcoSta 2022, Zoom Webinar, June 2022 (session organizer and speaker).
- 6th Annual International Conference on Applied Econometrics in Hawaii, Zoom Webinar, November 2021 (organizer and speaker).
- The Third Hosoya Prize Lecture, Graduate School of Economics and Management, Tohoku University, Miyagi, Japan, November 2021.
- Departmental seminar, Department of Economics, University of Essex, Colchester, U.K., September 2019.
- **Memorial lecture for the 33rd JSS Ogawa Award**, 2019 Japanese Joint Statistical Meeting, Shiga University, Japan, September 2019.
- SETA 2019, Osaka University, June 2019.
- 15th International Conference, WEAI, Keio University, Tokyo, March 2019.
- Essex Centre for Macro and Financial Econometrics Seminar Series, Department of Economics and Business School, Colchester, U.K., January 2019.
- Presidential session, 88th Annual Meeting of Southern Economic Association, Washington DC, November 2018.
- UNC Econometrics Workshop, Department of Economics, University of North Carolina at Chapel Hill, NC, October 2018.
- Departmental seminar, Institute of Statistics and Big Data, Renmin University of China, Beijing, China, August 28, 2018.
- Departmental seminar, Department of Statistics and Actuarial Science, University of Hong Kong, Hong Kong, June 2018.
- EcoSta 2018, The City University of Hong Kong, Hong Kong, June 2018 (session organizer and speaker).
- Economics and Economic Growth Centre Seminar Series, School of Social Sciences, Nanyang Technological University, January 2018.
- 3rd Annual International Conference on Applied Econometrics in Hawaii, Honolulu, Hawaii, September 2017.
- 4th Annual Conference of the International Association for Applied Econometrics, Sapporo, Hokkaido, Japan, June 2017.
- EcoSta 2017, The Hong Kong University of Science and Technology, Hong Kong, June 2017 (session organizer and speaker).
- 50th Anniversary Seminar, Department of Statistics and Actuarial Science, University of Hong Kong, Hong Kong, June 2017.
- 11th Spring Meeting of the Japan Statistical Society, National Graduate Institute for Policy Studies, Tokyo, March 2017.
 - Received **Best Poster Presentation Award**.
- UNC Econometrics Workshop, Department of Economics, University of North Carolina at Chapel Hill, NC, February 2017.
- NBER-NSF Time Series Conference, Columbia University, New York, September 2016.
- Asian Meeting of the Econometric Society, Doshisha University, Kyoto, August 2016.
- 10th Spring Meeting of the Japan Statistical Society, Tohoku University, Miyagi, March 2016.
 - Received **Best Poster Presentation Award**.

- Recent Developments in Time Series and Related Fields, Tohoku University, December 2015.
- 2015 Japanese Joint Statistical Meeting, Okayama University, Japan, September 2015.
 - Selected as **JJSM Competition Session Presentation Award Winner 2015**.
- 11th World Congress of Econometric Society, Palais des Congrès de Montréal, August 2015.
- SETA 2015, Hitotsubashi University, May 2015.
- 25th (EC)² Conference, Universitat Pompeu Fabra, December 2014.
- NBER-NSF Time Series Conference, Federal Reserve Bank of St. Louis, MO, September 2014.
- 2014 Japanese Joint Statistical Meeting, University of Tokyo, Japan, September 2014.
 - Selected as **JJSM Competition Session Best Presentation Award Winner 2014**.
- NBER-NSF Time Series Conference, Federal Reserve Board, Washington D.C., September 2013.
- North American Summer Meeting of the Econometric Society, University of Southern California, CA, June 2013.

EDITORIAL SERVICES

- Associate Editor, *Singapore Economic Review*, January 2018–present.
- Reviewer Board Member, *Journal of Risk and Financial Management*, January 2021–present.

COURSES TAUGHT	<i>Econometrics B (Master's)</i>	Fall 2023, Kobe University
	<i>Analysis of Stationary Time Series (Master's)</i>	Fall 2022, Kobe University
	<i>Analysis of Nonstationary Time Series (Master's)</i>	3 rd Quarter, 2021, Kobe University
	<i>Econometrics (Undergraduate)</i>	1 st Quarter, 2021, Kobe University
	<i>Analysis of Stationary Time Series (Master's)</i>	3 rd Quarter, 2020, Kobe University
	<i>Fresh-start Seminar (Undergraduate)</i>	1 st & 2 nd Quarters, 2020, Kobe University
	<i>Econometrics (Undergraduate)</i>	1 st Quarter, 2020, Kobe University
	<i>Analysis of Nonstationary Time Series (Master's)</i>	3 rd Quarter, 2019, Kobe University
	<i>Analysis of Stationary Time Series (Master's)</i>	1 st Quarter, 2019, Kobe University
	<i>Analysis of Nonstationary Time Series (Master's)</i>	3 rd Quarter, 2018, Kobe University
	<i>Analysis of Stationary Time Series (Master's)</i>	1 st Quarter, 2018, Kobe University
	<i>Analysis of Nonstationary Time Series (Master's)</i>	3 rd Quarter, 2017, Kobe University
	<i>Analysis of Stationary Time Series (Master's)</i>	1 st Quarter, 2017, Kobe University
	<i>Time Series Analysis (Master's)</i>	3 rd Quarter, 2016, Kobe University
	<i>Time Series Analysis (Master's)</i>	Spring 2016, Waseda University
	<i>Fresh-Start Seminar (Undergraduate)</i>	Spring 2016, Waseda University
	<i>Introduction to Microeconomics (Undergraduate)</i>	Spring 2016, Waseda University
	<i>Macroeconomics I (Master's)</i>	Fall 2015, Waseda University
	<i>Economic Statistics II (Master's)</i>	Fall 2015, Yokohama City University
	<i>Introduction to Macroeconomics (Undergraduate)</i>	Fall 2015, Waseda University
	<i>Introduction to Microeconomics (Undergraduate)</i>	Fall 2015, Waseda University
	<i>Time Series Analysis (Master's)</i>	Spring 2015, Waseda University
	<i>Economic Statistics I (Master's)</i>	Spring 2015, Yokohama City University
	<i>Fresh-start Seminar (Undergraduate)</i>	Spring 2015, Waseda University
	<i>Introduction to Macroeconomics (Undergraduate)</i>	Spring 2015, Waseda University
	<i>Introduction to Microeconomics (Undergraduate)</i>	Spring 2015, Waseda University

– Received Waseda University Teaching Award

OTHER RESEARCH AND EDUCATIONAL ACTIVITIES	<i>Program committee member, 2022 Japanese Joint Statistical Meeting</i>	September 2022
	Japanese Federation of Statistical Science Associations	
	<i>Invited article, “Why does the infection status of COVID-19 differ between Japan and the U.S.?”</i>	
	January 15, 2022, <i>Weekly Toyo Keizai Magazine</i> , pp. 78-79	
	<i>Program committee member, 2021 Japanese Joint Statistical Meeting</i>	September 2021
	Japanese Federation of Statistical Science Associations	
	<i>Invited special article as the 33rd JSS Ogawa Award Winner, “Mixed frequency vector autoregressive (MF-VAR) models and Granger causality tests”</i>	
	September 2020, <i>Nihon Toukei Gakkaishi</i> , vol. 50 (1), pp. 191-204	
	<i>Invited article, “On unifying copula models, missing data analysis, and causal inference”</i>	
	November 2019, <i>Kokumin-keizai Zasshi</i> , vol. 218 (5)	
	<i>Invited article, “Introduction to Monte Carlo experiments in econometrics”</i>	January 2018
	<i>For Learning Economics and Business Administration</i> , first half of FY2018	
	<i>Invited speaker, Interdisciplinary Cross Talk, 1st issue of WA</i>	September 2017
	Yoshida Scholarship Foundation	
	<i>Invited speaker, Summer Seminar</i>	July 2016
	Waseda University Honjo Senior High School	
	<i>Invited speaker, Summer Seminar</i>	July 2015
	Waseda University Honjo Senior High School	
	<i>Resource person, Pre-Departure Orientation for 2015 Japanese Fulbright Grantees</i>	June 2015
	Japan-US Educational Commission	
	<i>Invited speaker, Orientation for 2015 Yoshida Scholarship Grantees</i>	March 2015
	Yoshida Scholarship Foundation	
	<i>Invited blog article, Studying at U.S. graduate schools (written in Japanese)</i>	October 2014
	Yoshida Scholarship Foundation	
	<i>Resource person, Pre-Departure Orientation for 2014 Japanese Fulbright Grantees</i>	June 2014
	Japan-US Educational Commission	
	<i>Resource person, Orientation on Studying in the U.S.</i>	May 2014
	Japan-US Educational Commission	