Yuya Katafuchi, Ph.D.

Specially-Appointed Assistant Professor,
Industrial Ecology Lab., Graduate School of Environmental Studies, Tohoku University, Sendai, Japan
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April, 2025

EDUCATION

Ph.D. in Economics — Kyushu Univesity, Fukuoka, Japan — *2020*
- Doctral Thesis: "*Essays on Quantile Regressions*"

  Advisor: Taro Takimoto

Visiting Ph.D. Student — National Taiwan University, Taiwan — *2017*
- Reserach Project "*Land Prices and the Unemployment Rate in Japan*"

  Advisor: Jau-er Chen

M.A. in Economics — Kyushu Univesity, Fukuoka, Japan — *2015*
- Master Thesis: "*Bayesian inference for mixture innovation model*"

  Advisor: Taro Takimoto

B.A. in Economics — Seinan Gakuin University, Fukuoka, Japan — *2013*
- Bachelor Thesis: "*Analysis of stock return volatility under European sovereign-debt crisis using non-linear time-series models*"

  Advisor: Masahiro Chuman

EMPLOYMENT

Specially-Appointed Assistant Professor — Tohoku University, Sendai, Japan — *2024-Present*
- Industrial Ecology Lab.,
  Graduate School of Environmental Studies

Senior Researcher — Research Institute for Humanity and Nature, Kyoto, Japan — *2021-2024*
- Project: *Mapping the Environmental Impact Footprint of Cities, Companies, and Households*

Researcher — Research Institute for Humanity and Nature, Kyoto, Japan — *2020-2021*
- Project: *Mapping the Environmental Impact Footprint of Cities, Companies, and Households*

Research Associate — Research Institute for Humanity and Nature, Kyoto, Japan — *2019-2020*
- Project: *Mapping the Environmental Impact Footprint of Cities, Companies, and Households*

Teaching Assistant — Kyushu University, Fukuoka, Japan — *2016-2019*
- Class: *Econometrics I*
  Class: *Supplemental Lecture of Statistics and Econometrics for International Student*

Research Assistant — Kyushu University, Fukuoka, Japan — *2016-2019*
- Project: *Analysis Using Quantile Regression Under Endogeneity,*
  Project: *Development of Efficient Estimation of Time-Varying Parameter Models*

Technical Staff — Kyushu University, Fukuoka, Japan — *2018*
- Project: *Nonlinear Time Series Analysis with Applications to Euro Exchange Rate*

GRANTS

Grant-in-Aid for Early-Career Scientists — Japan Society for the Promotion of Science — *2021-2024* — PI, JPY4,550,000
- Project: *Development of a Policy Database on Coronavirus Disease (COVID-19) and Policy Evaluation Taking into Account the Heterogeneity*

Grant-in-Aid for Research Activity Start-up — Japan Society for the Promotion of Science — *2020-2021* — PI, JPY2,860,000
- Project: *Empirical Analysis of the Impact of Coronavirus Disease (COVID-19) on Land Prices*

PUBLICATIONS

- Kusudo, T., Kunii, D., Komatsu, G., & **Katafuchi, Y.** (2025). Changes in Visitors to Rice Terraces and Their Characteristics Before and After Self-Imposed Stay-Home: Evidence from Mobility Data in the Sakamoto Rice Terraces and the nearby Roadside Station during and after COVID-19. *Journal of Rural Planning Studies*, 5(1), . (in Japanese)

- Kurita, K., **Katafuchi, Y**, & Managi, S. (2023). COVID-19, stigma, and habituation: Evidence from mobility data. *BMC Public Health*, 23(98), 1-17.

- Kurita, K., Hori, N., & **Katafuchi., Y.** (2022). Stigma model of welfare fraud and non-take-up: Theory and evidence from OECD panel data. *International Journal of Economic Theory*, 18(3), 310-338.

- **Katafuchi, Y.**, Kurita, K., & Managi, S. (2021). COVID-19 with stigma: Theory and evidence from mobility data. *Economics of Disasters and Climate Change*, 5(1), 71-95.

- **Katafuchi, Y.** & Delgado Narro, A. R. (2020). Penalised Quantile Regression Analysis of Land Price in Japan using GIS Data. *Eurasian Economic Perspectives*, 27, Springer.

- **Katafuchi, Y.** Review on Quantile Regressions. *The Keizai Ronkyu*, 163, 49–76.

- **Katafuchi, Y.** & Chen, J-E. Land Prices and the Unemployment Rate in Japan. *Annual Report of Kyushu Association of Economic Science*, 65. (In Japanese)

WORKING PAPERS

- **Katafuchi, Y**, Li, X., Moran,D., Yamada, T., Fujii, H., & Kanemoto, K. (2024). Construction of An Enterprise-Level Global Supply Chain Database. Preprint available at *Research Square*.

    - SI Appendix for "Construction of An Enterprise-Level Global Supply Chain Database"

- Li, X., **Katafuchi, Y**, Moran,D., Yamada, T., Fujii, H., & Kanemoto, K. (2024). Systematic Underreporting in Corporate Scope 3 Disclosure. Preprint available at *Research Square*.

- **Katafuchi, Y** (2021). Residential land price fluctuations caused by behavioral changes on work-from-home based on COVID-19. *MPRA Paper*, No. 110254.

- Delgado Narro, A. R. & **Katafuchi, Y** (2020). COVID-19, state of emergency, and housing market. *MPRA Paper*, No.102475.

- Delgado Narro, A. R. & **Katafuchi, Y** (2020). Decomposition of Density into their Components: Analysis for the case of Japan. *MPRA Paper*, No. 100322.

DATABASES

- **Katafuchi, Y.** (2021). covid-19_emergency_statement_japan, GitHub.

- **Katafuchi, Y.** (2020). covid-19_priority_measures_japan, GitHub.

PRESENTATIONS

- **Katafuchi, Y**, Li, X., Yamada, T., Fujii, H., & Kanemoto, K. (2024/11/06) Construction of Enterprise-Level Global Supply Chain Database. *The 16th Biennial International Conference on Ecobalance (Ecobalance 2024)*, Sendai International Center, Sendai, Japan.

- Li, X., **Katafuchi, Y.**, Yamada, T., Fujii, H., & Kanemoto, K. (2024/11/06) Scope 3 Emissions of 2,000 Companies and 12,000 Subsegments. *The 16th Biennial International Conference on Ecobalance (Ecobalance 2024)*, Sendai International Center, Sendai, Japan.

- Kusudo, T., Miyake, Y., & **Katafuchi, Y.** (2024/09/08) Identification of Disadvantaged Agricultural Land in Kyushu Using GIS Data: . *The 18th Annual Conference of The Food, Agricultural and Resource Economics Society of Japan*, Yume Yume Plaza Takachiho, Miyazaki, Japan.

- **Katafuchi, Y**, Li, X., Yamada, T., Fujii, H., & Kanemoto, K. (2024/06/24) Construction of Enterprise-Level Global Supply Chain Database and its Application to Scope 3 Emissions. *Interdisciplinary Workshop on Firm-Level Supply Networks*, Complexity Science Hub, Vienna, Austria.

- **Katafuchi, Y**, Li, X., Yamada, T., Fujii, H., & Kanemoto, K. (2024/03/07) Construction of Global Supply Chain Data using Micro-data. *The 19th Annual Conference of The Institute of Life Cycle Assessment, Japan (ILCAJ)*, Utsunomiya University, Tochigi, Japan.

- Li, X., **Katafuchi, Y.**, Yamada, T., Fujii, H., & Kanemoto, K. (2024/03/07) Estimation of Scope 3 Emission using Novel Global Supply Chain Database. *The 19th Annual Conference of The Institute of Life Cycle Assessment, Japan (ILCAJ)*, Utsunomiya University, Tochigi, Japan.

- **Katafuchi, Y.** & Kusudo, T. (2024/02/07) Farmland Transaction under COVID-19-Related Non-Pharmaceutical Policy Intervention. *The 68th Annual Conference of The Australasian Agricultural and Resource Economics Society*, Australian National University, Canberra, Australia.

- Kusudo, T. & **Katafuchi, Y.** (2024/02/07) Farmland Transaction under the Policy Change in Direct Payment Scheme for Collective Stewardship of Common Property Resources. *The 68th Annual Conference of The Australasian Agricultural and Resource Economics Society*, Australian National University, Canberra, Australia.

- Kusudo, T., Kunii, D., Komatsu, G., & **Katafuchi, Y.** (2023/12/09) Changes in Visitors to Rice Terraces and Their Characteristics Before and After Self-Restraint from Going Out - A Comparison of Mobility Data in Sakamoto Rice Terraces and the nearby Roadside Station Sakatani. *2023 Autumn Conference of the Association of Rural Planning*, Ibaraki University, Ibaraki, Japan.

- **Katafuchi, Y.** & Shiba, K. (2022/12/10) Effect of COVID-19 Related Policy Intervention on Land Price. *2nd Atsubetsu Economic Research Workshop*, Hokusei Gakuen University, Hokkaido, Japan.

- **Katafuchi, Y.** & Shiba, K. (2022/06/25) Effect of COVID-19 Related Policy Intervention on Land Price. *2022 Spring Conference of Japan Association for Applied Economics*, Kumamoto University, Kumamoto, Japan.

- **Katafuchi, Y.** (2021/11/15) Residential land price fluctuations caused by behavioral changes on work-from-home based on COVID-19. *2021 Autumn Conference of Japan Association for Applied Economics*, Online.

- Kurita, K. & **Katafuchi, Y.** (2021/11/15) COVID-19, stigma, and habituation: Theory and evidence from mobility data. *2021 Autumn Conference of Japan Association for Applied Economics*, Online.

- **Katafuchi, Y.** & Delgado Narro, A. R. (2020/11/22) COVID-19, state of emergency, and housing market. *2020 Autumn Conference of Japan Association for Applied Economics*, Online.

- **Katafuchi, Y.** & Delgado Narro, A. R. (2020/06/20). Decomposition of Density into their Components: Analysis for the case of Japan. *2020 Spring Conference of Japan Association for Applied Economics*, Online.

- **Katafuchi, Y.** (2019/06/26). Unconditional Quantile Regression with Endogenous Regressors: A Simulation Study. *3rd International Conference on Econometrics and Statistics*, National Chung Hsing University, Taichung, Taiwan.

- **Katafuchi, Y.** & Kurita, K. (2019/06/16). Does benefit level affect welfare stigma?: Theory and evidence from OECD panel data. *2019 Spring Conference of Japan Association for Applied Economics*, Nanzan University, Nagoya, Japan.

- **Katafuchi, Y.** & Delgado Narro, A. R. (2019/06/01). Does the country-general heterogeneity in the hedonic price exist in Japan?: Penalised quantile regression analysis using GIS data, *15th International Symposium on Econometric Theory and Applications*, Osaka University, Japan.

- **Katafuchi, Y.** & Kurita, K. (2019/04/26). Does benefit level affect welfare stigma?: Theory and evidence from OECD panel data. *Annual Conference of Korean Association of Applied Economics 2019*, Daegu Grand Hotel, Daegu, South Korea.

- **Katafuchi, Y.** & Kurita, K. (2019/03/15). Is welfare stigma variable with respect to benefit level ?: Theory and evidence from OECD panel data. *Research Meeting for Applied Economics*, Across Fukuoka, Fukuoka, Japan.

- **Katafuchi, Y.** & Delgado Narro, A. R. (2019/01/09). Penalized Quantile Regression Analysis of the Land Price in Japan by using GIS Data, *27th Eurasia Business and Economics Society Conference*, Grand Inna Kuta, Bali, Indonesia.

- **Katafuchi, Y.** & Kurita, K. (2018/12/01). Social norms and Social benefit programs: Evidence from OECD panel data. *2018 Annual Conference of Kyushu Association of Economic Science*, Shimonoseki City University, Yamaguchi, Japan.

- **Katafuchi, Y.** (2018/12/01). Unconditional Quantile Regression with Endogenous Regressors: A Simulation Study. *2018 Annual Conference of Kyushu Association of Economic Science*, Shimonoseki City University, Yamaguchi, Japan.

- Chen, J-E., & **Katafuchi, Y.** (2018/11/10). Land Prices and the Unemployment Rate in Japan, *2018 1st DSGE Workshop*, Senshu University.

- **Katafuchi, Y.** (2018/09/26). Land Prices and the Unemployment Rate in Japan: Quantile Regression Analysis. *World Social Science Forum 2018*, Fukuoka International Congress Center.

- **Katafuchi, Y.** & Delgado Narro, A. R. (2018/06/29). Penalized Quantile Regression Analysis of the Land Price in Japan by using GIS Data, *3rd Joint-seminar between Kyushu University and National Taiwan University*, National Taiwan University, Taiwan.

- **Katafuchi, Y.** (2017/12/09). Land Prices and the Unemployment Rate in Japan. *2017 Annual Conference of Kyushu Association of Economic Science*, Kurume University, Fukuoka, Japan.

- Chen, J-E., & **Katafuchi, Y.** (2017/11/07). Land Prices and the Unemployment Rate in Japan. *2017 Annual Conference of Taiwan Econometric Society*, Institute of Economics, Academia Sinica, Taiwan.

- **Katafuchi, Y.** & Chen, J-E. (2017/06/26). Land Prices and the Unemployment Rate in Japan. *1st Joint-seminar between Kyushu University and National Taiwan University*, National Taiwan University, Taiwan.

- **Katafuchi, Y.** (2016/12/09). Change-point versus threshold processes: a comparison using Monte Carlo simulations. *2016 Annual Conference of Kyushu Association of Economic Science*, Kyushu University, Fukuoka, Japan.

- **Katafuchi, Y.** (2015/12/05). Bayesian inference for mixture innovation model. *2015 Annual Conference of Kyushu Association of Economic Science*, Kagoshima University, Kagoshima, Japan.

ACADEMIC ACTIVITIES

Journal Referee Service: see Web of Science.

- Neural Networks and Deep Learning (deeplearning.ai), *coursera*, certificate

- A Crash Course in Causality: Inferring Causal Effects from Observational Data (University of Pennsylvania), *coursera*, certificate

- Machine Learning (Stanford University), *coursera*, certificate

- Practical Machine Learning (Johns Hopkins University), *coursera*, certificate