

# Yuya Katafuchi, Ph.D.

April, 2024

Assistant Professor,

Industrial Ecology Lab., Graduate School of Environmental Studies, Tohoku University, Sendai, Japan

Email: yuya.katafuchi@gmail.com

Website: <https://yuya-katafuchi.github.io/>

## EDUCATION

<b>Ph.D. in Economics</b>	Kyushu University, Fukuoka, Japan
• Doctoral Thesis: <i>"Essays on Quantile Regressions"</i>	2020
	Advisor: Taro Takimoto
<b>Visiting Ph.D. Student</b>	National Taiwan University, Taiwan
• Research Project <i>"Land Prices and the Unemployment Rate in Japan"</i>	2017
	Advisor: Jau-er Chen
<b>M.A. in Economics</b>	Kyushu University, Fukuoka, Japan
• Master Thesis: <i>"Bayesian inference for mixture innovation model"</i>	2015
	Advisor: Taro Takimoto
<b>B.A. in Economics</b>	Seinan Gakuin University, Fukuoka, Japan
• Bachelor Thesis: <i>"Analysis of stock return volatility under European sovereign-debt crisis using non-linear time-series models"</i>	2013
	Advisor: Masahiro Chuman

## EMPLOYMENT

<b>Assistant Professor</b>	Tohoku University, Sendai, Japan
• Industrial Ecology Lab., Graduate School of Environmental Studies	2024-Present
<b>Senior Researcher</b>	Research Institute for Humanity and Nature, Kyoto, Japan
• Project: <i>Mapping the Environmental Impact Footprint of Cities, Companies, and Households</i>	2021-2024
<b>Researcher</b>	Research Institute for Humanity and Nature, Kyoto, Japan
• Project: <i>Mapping the Environmental Impact Footprint of Cities, Companies, and Households</i>	2020-2021
<b>Research Associate</b>	Research Institute for Humanity and Nature, Kyoto, Japan
• Project: <i>Mapping the Environmental Impact Footprint of Cities, Companies, and Households</i>	2019-2020
<b>Teaching Assistant</b>	Kyushu University, Fukuoka, Japan
• Class: <i>Econometrics I</i>	2016-2019
Class: <i>Supplemental Lecture of Statistics and Econometrics for International Student</i>	
<b>Research Assistant</b>	Kyushu University, Fukuoka, Japan
• Project: <i>Analysis Using Quantile Regression Under Endogeneity,</i>	2016-2019
Project: <i>Development of Efficient Estimation of Time-Varying Parameter Models</i>	
<b>Technical Staff</b>	Kyushu University, Fukuoka, Japan
• Project: <i>Nonlinear Time Series Analysis with Applications to Euro Exchange Rate</i>	2018

## GRANTS

<b>Grant-in-Aid for Early-Career Scientists</b>	Japan Society for the Promotion of Science
• Project: <i>Development of a Policy Database on Coronavirus Disease (COVID-19) and Policy Evaluation Taking into Account the Heterogeneity</i>	2021-2024 PI, JPY4,550,000
<b>Grant-in-Aid for Research Activity Start-up</b>	Japan Society for the Promotion of Science
• Project: <i>Empirical Analysis of the Impact of Coronavirus Disease (COVID-19) on Land Prices</i>	2020-2021 PI, JPY2,860,000

## PUBLICATIONS

---

- 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., Yamada, T., Fujii, H., & Kanemoto, K. (2023). Construction of Enterprise-Level Global Supply Chain Database. Preprint available at *Research Square*.
- Li, X., **Katafuchi, Y.**, Yamada, T., Fujii, H., & Kanemoto, K. (2023). Scope 3 Emissions of 2,000 Companies and 19,000 Subsegments. 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.** & 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.

---

## CERTIFICATE OF ONLINE COURSES

- 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