

# Minoru Osawa

Curriculum Vitae

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Kyoto Institute of Economic Research, Kyoto University

Address: Yoshida-honmachi, Sakyo Ward, Kyoto City, Kyoto 606-8501 JAPAN

Email: [osawa@kier.kyoto-u.ac.jp](mailto:osawa@kier.kyoto-u.ac.jp) / [osawa.minoru@gmail.com](mailto:osawa.minoru@gmail.com)

Web: [mino-osawa.github.io](https://mino-osawa.github.io)

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## EDUCATION

Ph.D. in Information Sciences, Tohoku University	September 2016
M.A. in Information Sciences, Tohoku University	March 2014
B.A. in Engineering, Tohoku University	March 2014
Born:	March 1990

## ACADEMIC EMPLOYMENT

Assistant Professor, Kyoto Institute of Economic Research, Kyoto University	April 2020 – Present
Assistant Professor, School of Engineering, Tohoku University	October 2016 – March 2020

## RESEARCH INTERESTS

Urban and regional economics; Transportation science; Evolutionary game theory.

## RESEARCH

### Refereed Publications

1. “[Time Evolution of City Distributions in Germany](#),” with Kiyohiro Ikeda and Yuki Takayama. *Networks and Spatial Economics*, **22**, 125–151, 2022.
2. “[Perturbed pitchfork bifurcation in a population game: Application to economic geography](#),” with Kiyohiro Ikeda, José Maria Gaspar, and Yuki Takayama. *Journal of Regional Science*, **62**(4), 961–980, 2022.
3. “[Model-based analysis on social acceptability and feasibility of a focused protection strategy against the COVID-19 pandemic](#),” with Takashi Akamatsu, Takeshi Nagae, Koki Satsukawa, Takara Sakai, Daijiro Mizutani. *Scientific Reports* **11**, 2003, 2021.
4. “[Break and sustain bifurcations of  \$S\_N\$ -invariant equidistant economy](#),” with Kiyohiro Ikeda, José Maria Gaspar, and Hiroki Aizawa. *International Journal of Bifurcation and Chaos*, **30**(16), 2050240, 2020.
5. “[Equilibrium refinement for a model of non-monocentric internal structures of cities: A potential game approach](#),” with Takashi Akamatsu. *Journal of Economic Theory*, **187**, 105025, 2020.
6. “[First-best dynamic assignment of commuters with endogenous heterogeneities in a corridor network](#),” with Haoran Fu and Takashi Akamatsu. *Transportation Research Part B: Methodological*, **117**, 811–831, 2018.
7. “[Harris and Wilson \(1978\) model revisited: The spatial period-doubling bifurcation in an urban retail model](#),” with Takashi Akamatsu and Yuki Takayama. *Journal of Regional Science*, **57**(3), 442–466, 2017.

### Working Papers

1. “[Spatial scale of agglomeration and dispersion: Number, spacing, and the spatial extent of cities](#),” with Takashi Akamatsu, Tomoya Mori, and Yuki Takayama. 2024.
2. “[Origin of power laws and their spatial fractal structure for city-size distributions](#),” with Takashi Akamatsu, Tomoya Mori, and Yuki Takayama. 2024.

3. [“Stochastic stability of agglomeration patterns in an urban retail model,”](#) with Takashi Akamatsu and Yosuke Kogure. 2020.
4. [“Innovation through intra and inter-regional interaction in economic geography”](#) with José Maria Gaspar. 2024.
5. [“Production externalities and dispersion process in a multi-region economy,”](#) with José Maria Gaspar. 2020.

#### **RESEARCH GRANTS (PI ONLY), HONORS, AND FELLOWSHIPS**

1. Grant-in-Aid for Scientific Research (C) (22K04353), Japan Society for the Promotion of Science (April 2022 – March 2026).
2. Grant-in-Aid for Early-Career Scientists (19K14735), Japan Society for the Promotion of Science (April 2019 – March 2023).
3. Grant-in-Aid for Young Scientists (B) (17K14735), Japan Society for the Promotion of Science (April 2017 – March 2019).
4. Grant-in-Aid, Joint Usage and Research Center, Institute of Economic Research, Kyoto University (April 2017 – March 2018).
5. Research Fellowship for Young Scientists (DC1), Japan Society for the Promotion of Science (April 2014 – September 2016).
6. 2017 Kometani-Sasaki Award (for doctoral theses), Institute of Systems Science Research.
7. 2016 Doboku Gakkai Ronbun Shourei Shou, Japan Society of Civil Engineers.
8. 2014 Doboku Gakkai Ronbun Shou, Japan Society of Civil Engineers. (Joint with T. Akamatsu, T. Nagae, and H. Yamaguchi)