

# Minoru OSAWA

Curriculum Vitae

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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, 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. “[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.
2. “[Time Evolution of City Distributions in Germany](#),” with Kiyohiro Ikeda and Yuki Takayama.  
*Networks and Spatial Economics*, **22**, 125–151, 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.

## Discussion Papers

1. “Spatial scale of agglomeration and dispersion: Number, spacing, and the spatial extent of cities,” with Takashi Akamatsu, Tomoya Mori, and Yuki Takayama. 2025. R&R at *Journal of Urban Economics*.
2. “Understanding regional dynamics,” 2025.
3. “Equilibrium distortion with dual noise: The sampling logit approach,” 2025.
4. “Innovation, spillovers and economic geography” with José Maria Gaspar. 2025. Submitted to *Economic Theory*. (old version on arXiv)
5. “Most likely retail agglomeration patterns: Potential maximization and stochastic stability of spatial equilibria,” with Takashi Akamatsu and Yosuke Kogure. 2025.
6. “Origin of power laws and their spatial fractal structure for city-size distributions,” with Takashi Akamatsu, Tomoya Mori, and Yuki Takayama. 2024.
7. “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 2022).
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)