

Yoshiyuki Arata

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Education

- B.A. Economics, Tokyo University, 2010.
- M.A. Economics, Tokyo University, 2012.
- Ph.D. Economics, Tokyo University, 2015.
Dissertation Director: Professor Hiroshi Yoshikawa
Dissertation: "Essays on Stochastic Macroeconomics"

Employment

- Fellow, Research Institute of Economy, Trade and Industry, 2015-present
- JSPS Research Fellowship for Young Scientists (DC2), 2013-2015

Fields of Research Interests

Macroeconomics, Industrial dynamics, Stochastic processes

Research

Publications

- "Shock propagation through customer-supplier relationships: An application of the stochastic actor-oriented model," in *Complex Networks & Their Applications VI, Proceedings of Complex Networks 2017*. (with A. Chakraborty, Y. Fujiwara, H. Inoue, H. Krichene, and M. Terai).
- "Aggregate implications of lumpy investment under heterogeneity and uncertainty: a model of collective behavior," *Evolutionary and Institutional Economic Review*, 14(2), 311-333, 2017. (with Yosuke Kimura and Hiroki Murakami).
- "Endogenous business cycles caused by nonconvex costs and interactions," *Journal of Economic Interaction and Coordination*, 12(2), 367-391, 2017.

Discussion Papers

- "Are There Any Empirical Regularities of Firms' Growth Patterns? The importance of large jumps," RIETI Discussion Paper, 14-E-033, 2014. (Revision suggested by the *Journal of Economic Dynamics and Control*)
- "A Compositional Data Analysis of Market Share Dynamics," RIETI Discussion Paper, 17-E-076, 2017.

- "A Functional Linear Regression Model in the Space of Probability Density Functions," RIETI Discussion Paper, 17-E-015, 2017.
- "Income Distribution among Individuals: The effects of economic interactions," RIETI Discussion Paper, 13-E-042, 2013.

Presentations

Conference

- The 6th International Conference on Complex Networks and Their Applications, Lyon, France, November 2017.
- 2017 Comparative Analysis of Enterprise Data (CAED) Conference, Sogang University, Korea, September 2017.
- 10th Nonlinear Economic Dynamics (NED) Conference - I CICSE Workshop, University of Pisa, Italy, August 2017.
- 44th Annual Conference of the European Association for Research in Industrial Economics (EARIE), Maastricht University, Netherlands, August 2017.
- 22st annual Workshop on the Economic Science with Heterogeneous Interacting Agents (WEHIA), Università Cattolica del Sacro Cuore, Italy, June 2017.
- Asian Meeting of Econometric Society, Chinese University of Hong Kong, China, June 2017.
- Annual Meeting of Japan Association for Evolutionary Economics, Kyoto University, Japan, March 2017.
- The 21st annual Workshop on the Economic Science with Heterogeneous Interacting Agents (WEHIA), Jaume I University, Spain, June 2016.
- International Workshop on Econophysics & Sociophysics, Jawaharlal Nehru University & University of Delhi, India, December 2015.
- The 8th Workshop Dynamic Models in Economics and Finance, University of Urbino, Italy, September 2014.

Seminar

- Otto-Friedrich-Universität Bamberg, December 2017.
- University of Kiel, August 2017.
- Kyoto University, July 2017.
- Kyushu University, April 2017.
- Aoyama Gakuin University, October 2015.
- Nonlinear Mathematics in Macroeconomic Dynamics, Kyoto University, September 2015.
- Public Seminar, Institute of Economic Research, Chuo University, January 2015.
- IIR Summer School, Hitotsubashi University, August 2014.
- Public Seminar, Institute of Economic Research, Chuo University, June 2014.
- Econophysics and related topics, The Canon Institute for Global Studies, August 2012.

Grants

- JSPS Grant-in-Aid for Scientific Research B (17Ho2041), 2017-2020, Member.
- MEXT Exploratory Challenges on Post-K computer (Studies of Multi-level Spatiotemporal Simulation of Socioeconomic Phenomena), 2016-2020, Member.
- JSPS Grant-in-Aid for JSPS Fellows (DC2), 2013-2015.

Referee/Reviewer

Economic Modelling; Journal of Economic Interaction and Coordination

Teaching Experience

"Microeconomics and Macroeconomics," Rissho University, 2015-2017.

Last updated: January 9, 2018