

Ryosuke Yoneda, Ph.D.

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🐦 @yonesuke1729

🌐 <https://yonesuke.github.io/>

Employment History

2023 – ···· 📌 **Nomura Securities**, Data Science Department.

Education

2020 – 2023 📌 **Ph.D. in Informatics, Kyoto University.**

Thesis title: *Theoretical and Experimental Research on Coupled Phase-Oscillator Models.*

2018 – 2020 📌 **M.Sc. in Informatics, Kyoto University.**

Thesis title: *Critical exponents in coupled phase-oscillator models on small-world networks.*

2014 – 2018 📌 **B.Sc. in Engineering, Kyoto University.**

Thesis title: *Classification of bifurcation diagrams in coupled phase-oscillator models with asymmetric natural frequency distributions.*

Research Publications

Journal Articles

- 1 R. Yoneda and K. Harada, “Neural network approach to scaling analysis of critical phenomena,” *Physical Review E*, vol. 107, no. 4, p. 044 128, 2023. eprint: arXiv:2209.01777. 🔗 URL: <https://journals.aps.org/pre/abstract/10.1103/PhysRevE.107.044128>.
- 2 R. Yoneda, T. Tatsukawa, and J.-n. Teramae, “The lower bound of the network connectivity guaranteeing in-phase synchronization,” *Chaos: An Interdisciplinary Journal of Nonlinear Science*, vol. 31, no. 6, p. 063 124, 2021. 🔗 URL: <https://aip.scitation.org/doi/abs/10.1063/5.0054271>.
- 3 R. Yoneda, K. Harada, and Y. Y. Yamaguchi, “Critical exponents in coupled phase-oscillator models on small-world networks,” *Physical Review E*, vol. 102, no. 6, p. 062 212, 2020. 🔗 URL: <https://journals.aps.org/pre/abstract/10.1103/PhysRevE.102.062212>.
- 4 R. Yoneda and Y. Y. Yamaguchi, “Classification of bifurcation diagrams in coupled phase-oscillator models with asymmetric natural frequency distributions,” *Journal of Statistical Mechanics: Theory and Experiment*, vol. 2020, no. 3, p. 033 403, 2020. 🔗 URL: <https://iopscience.iop.org/article/10.1088/1742-5468/ab6f5f/meta>.
- 5 Y. Terada, K. Ito, R. Yoneda, T. Aoyagi, and Y. Y. Yamaguchi, “A role of asymmetry in linear response of globally coupled oscillator systems,” 2018. eprint: arXiv:1802.08383. 🔗 URL: <https://arxiv.org/abs/1802.08383>.

Skills


- Languages 📌 Fluent in Japanese, conversational in English (TOEIC score 945, TOEFL score 93)
- Coding 📌 Python, C/C++, Julia, \LaTeX , ...
- Misc. 📌 Academic research, teaching, training, \LaTeX typesetting and publishing.

Experience


Teaching

2020 – 2023  **Lecturer in Kyoto Junior College of Foreign Languages**, Practical Mathematics Skills.

Research Assistant

2021  **Assist in the development of methods for statistically estimating mathematical models from data on spatio-temporal rhythm phenomena.**

 **Assist in research on orbital design of space probes.**


2020  **Assist in the development of statistical methods for building mathematical models from observed data of rhythmic phenomena.**


Grants

2022 – 2024  **Research Fellowship for Young Scientists**, Japan Society for the Promotion of Science.


2020 – 2021  **Iwadare Scholarship**, Iwadare Scholarship Foundation.

Internships

2021  **Nomura Securities**, Nomura passport.

 **P&G Japan Ltd.**, Summer Internship.

2018 – 2020  **DATAGRID Inc**, Internship.

2018  **Mercari Inc**, Professional Internship.