

# Keigo Kusumegi

Email: [kk929@cornell.edu](mailto:kk929@cornell.edu)  
<https://keygoksmg.github.io/>  
updated March 2025

## EDUCATION

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**Cornell University** (Ithaca, NY) August 2023 –  
PhD program in Information Science  
Advisor: Yian Yin

**University of Tsukuba** (Ibaraki, Japan) April 2021 – March 2023  
MSs in Systems and Information Engineering  
Advisor: Yukie Sano

**University of Tsukuba** (Ibaraki, Japan) April 2017 – March 2021  
College of Policy and Planning Sciences

## PUBLICATIONS

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**Kusumegi, K.**, <sup>†</sup>Yang, X., <sup>†</sup>Ginsparg, P., De Vaan, M., Stuart, T., Yin, Y. Scientific productivity and practice in the era of Large Language Models. (submitted to *Science*)

**Kusumegi, K.**, Yin, Y. The Specialization of interdisciplinary innovators in science and technology. (working paper)

**Kusumegi, K.**, Sano, Y. Dataset of identified scholars mentioned in acknowledgement statements. *Scientific Data* 9, 461 (2022).

**Kusumegi K.**, Sano, Y. 2021. Citations and Gender Diversity in Reciprocal Acknowledgement Networks. Preprint at *arXiv:2104.01729* (2021).

## EXPERIENCE

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**Graduate Research Assistant at Cornell University** Ithaca, NY  
Advisor: Dr. Yian Yin August 2023 –

**Research internship in Northeastern University** Online  
Advisor: Dr. Albert-Laszlo Barabasi & Dr. Rodrigo Dorantes-Gilardi September 2022 – December 2022

**g-RIPS (Graduate-level Research in Industrial Projects for Students)** Sendai, Japan  
International research program hosted by Tohoku University and UCLA. June 2021 – August 2021

**Internship, OPTiM Corporation** Online  
R&D Summer Internship at OPTiM inc. September 2020 – October 2020

**Student Supports for conference** Tokyo, Japan  
Student staff for the international conference NetSciX Tokyo, Japan January 2020

**International Exchange Student Program** Jalisco, Mexico  
Tsukuba Trans-Pacific Human Capital Development Program International Exchange Program August 2018 – July 2019

## Teaching Assistant

- Introduction to Programming (2021 & 2022 Fall)
- Introduction to Quantitative Economics (2021 & 2022 Fall)
- Seminar in Social and Economics: Quantitative Systems Analysis Area (2021 & 2022 Spring)

## HONORS & AWARDS

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**Funai Overseas Scholarship** 2023 – 2025  
Granted 2 years of tuition, medical insurance, and stipend.

**QUAD Fellowship** 2023 – 2024  
Elected as one of 100 fellows out of over 3,200 applications from the US, India, Australia, and Japan.  
Awarded 50,000 USD for research expenses.

**President's Commendation** 2023  
President's Commendation for outstanding contribution in research at the University of Tsukuba

**Tsukuba Scholarship** 2023  
100,000 JPY for graduate study. Two out of 23 PhD students selected

**Student grants** 2022  
Awarded the registration fee for the Conference on COMPLEX SYSTEMS 2022 at Mallorca, Spain.

**Nakagawa Ikueikai Scholarship** 2021 – 2023  
A few outstanding candidates in the Department of Systems and Information Engineering, University of Tsukuba.

**Best Poster Award** 2021  
Award for the best poster presenter in the Network Ecology symposium

**Scholarship from the Japan Society for The Promotion of Science** 2018 – 2019  
A scholarship for an international exchange program of Inter-university exchange project for one year.

## TALKS

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- 1. The first Japanese Science of Science workshop**  
Tokyo, Japan / October 2023  
Invited talk: Interdisciplinary researchers and their collaboration
- 2. NetSci 2023**  
Vienna, Austria / October 2023  
Poster: Gender homophily in acknowledgement mention network
- 3. NetSci 2023 Networks in Science of Science (Satellite Session)**  
Vienna, Austria / October 2023  
Oral presentation: Dissecting the Gender Divide: A Large-Scale Analysis of Acknowledgment vs. Co-Authorship in Scientific Publications
- 4. Conference on Complex Systems 2022**  
Palma de Mallorca, Spain / October 2022  
Oral presentation: Interdisciplinarity between acknowledgement and collaboration

- 5. Reconstructing Network Dynamics from Data: Applications to Neuroscience and Beyond**  
Los Angeles, CA / August 2022  
Poster: Interdisciplinarity in authorship and acknowledgment networks
- 6. SOCIOECONOMIC NETWORKS AND NETWORK SCIENCE WORKSHOP 2022**  
Online / August 2022  
Oral presentation: Identified acknowledged scholars and their interdisciplinarity
- 7. NetSci2022**  
Online / July 2022  
Oral presentation: Identifying acknowledged scholars in open access journals and their networks
- 8. 17<sup>th</sup> Network Ecology Symposium**  
Online / March 2022  
Invited talk: Construction and Structure of Scholar Acknowledgement Network
- 9. Complex Networks 2021**  
Online / November 2021  
Lightning talk: Empirical Analysis of Acknowledgment Network and Citation
- 10. SCIENCE OF INNOVATION AND SUCCESS WORKSHOP**  
Tokyo, Japan / August 2021  
Oral presentation: Academic World from Acknowledgement Network Analysis
- 11. IC2S2: 7<sup>th</sup> International Conference on Computational Social Science**  
Online / July 2021  
Poster: Citation and Gender Diversity in Research Acknowledgement Networks With Reciprocity
- 12. Networks 2021: A Joint Sunbelt and NetSci Conference**  
Online / July 2021  
Oral presentation: Citation and gender diversity in reciprocal acknowledgement networks
- 13. 16<sup>th</sup> Network Ecology Symposium (Best poster award)**  
Online / March 2021  
Citation networks and gender diversity in reciprocal acknowledgement networks
- 14. 7<sup>th</sup> Service Engineering Symposium**  
Online / February 2021  
The relationships between citation and reciprocity in acknowledgement networks
- 15. Network Seminar 2020**  
Online / December 2020  
Emergence of reciprocity in research acknowledgements networks and that impact on citation
- 16. 7<sup>th</sup> Satellite on Quantifying Success 2020**  
Online / September 2020  
Oral presentation: Emergence of reciprocity in research acknowledgement network