

Keigo Kusumegi

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<https://keygoksmg.github.io/>

updated March 2025

EDUCATION

Cornell University (Ithaca, NY)

PhD program in Information Science

Advisor: Yian Yin

August 2023 –

University of Tsukuba (Ibaraki, Japan)

MSs in Systems and Information Engineering

Advisor: Yukie Sano

April 2021 – March 2023

University of Tsukuba (Ibaraki, Japan)

College of Policy and Planning Sciences

April 2017 – March 2021

PUBLICATIONS

Kusumegi, K., [†]Yang, X., [†]Ginsparg, P., De Vaan, M., Stuart, T., Yin, Y. Scientific productivity and practice in the era of Large Language Models. (under review)

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

Graduate Research Assistant at Cornell University

Advisor: Dr. Yian Yin

Ithaca, NY

August 2023 –

Text analysis consultant at Summer Graduate Fellowship in Digital Humanities

Ithaca, NY

Summer 2025

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

Tsukuba Trans-Pacific Human Capital Development Program International
Exchange Program

Jalisco, Mexico
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

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

1. KDD'25 SciSoc LLM Workshop Large Language Models for Scientific and Societal Advances

Toronto, Canada / June 2025

Oral presentation: Scientific productivity and practice in the era of Large Language Models

2. ICSSI 2025

Copenhagen, Denmark / June 2025

Oral presentation: The Specialization of interdisciplinary innovators in science and technology

Oral presentation: Scientific productivity and practice in the era of Large Language Models

3. Japanese Science of Science workshop

Tokyo, Japan / October 2023

Invited talk: Interdisciplinary researchers and their collaboration

- 4. NetSci 2023**
Vienna, Austria / October 2023
Poster: Gender homophily in acknowledgement mention network
- 5. 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
- 6. Conference on Complex Systems 2022**
Palma de Mallorca, Spain / October 2022
Oral presentation: Interdisciplinarity between acknowledgement and collaboration
- 7. Reconstructing Network Dynamics from Data: Applications to Neuroscience and Beyond**
Los Angeles, CA / August 2022
Poster: Interdisciplinarity in authorship and acknowledgment networks
- 8. SOCIOECONOMIC NETWORKS AND NETWORK SCIENCE WORKSHOP 2022**
Online / August 2022
Oral presentation: Identified acknowledged scholars and their interdisciplinarity
- 9. NetSci2022**
Online / July 2022
Oral presentation: Identifying acknowledged scholars in open access journals and their networks
- 10. 17th Network Ecology Symposium**
Online / March 2022
Invited talk: Construction and Structure of Scholar Acknowledgement Network
- 11. Complex Networks 2021**
Online / November 2021
Lightning talk: Empirical Analysis of Acknowledgment Network and Citation
- 12. SCIENCE OF INNOVATION AND SUCCESS WORKSHOP**
Tokyo, Japan / August 2021
Oral presentation: Academic World from Acknowledgement Network Analysis
- 13. IC2S2: 7th International Conference on Computational Social Science**
Online / July 2021
Poster: Citation and Gender Diversity in Research Acknowledgement Networks With Reciprocity
- 14. Networks 2021: A Joint Sunbelt and NetSci Conference**
Online / July 2021
Oral presentation: Citation and gender diversity in reciprocal acknowledgement networks
- 15. 16th Network Ecology Symposium (Best poster award)**
Online / March 2021
Citation networks and gender diversity in reciprocal acknowledgement networks

16. 7th Service Engineering Symposium

Online / February 2021

The relationships between citation and reciprocity in acknowledgement networks

17. Network Seminar 2020

Online / December 2020

Emergence of reciprocity in research acknowledgements networks and that impact on citation

18. 7th Satellite on Quantifying Success 2020

Online / September 2020

Oral presentation: Emergence of reciprocity in research acknowledgement network