

# Keigo Kusumegi

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

updated Jan. 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.**, <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

**Graduate Research Assistant at Cornell University**

Advisor: Dr. Yian Yin

Ithaca, NY

August 2023 –

**Research internship in Northeastern University**

Advisor: Dr. Albert-Laszlo Barabasi & Dr. Rodrigo Dorantes-Gilardi

Online

September 2022 – December 2022

**g-RIPS (Graduate-level Research in Industrial Projects for Students)**

International research program hosted by Tohoku University and UCLA.

Sendai, Japan

June 2021 – August 2021

**Internship, OPTiM Corporation**

R&D Summer Internship at OPTiM inc.

Online

September 2020 – October 2020

**Student Supports for conference**

Student staff for the international conference NetSciX Tokyo, Japan

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

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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