

TAEKHO YOU

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I. SUMMARY

I am interested in a broad range of scientific phenomena, especially for the academic system. I am trying to answer how the academic system is organized, how academic knowledge spreads, how researchers grow up and survive in academia, and how we use these understandings to make decision making. My research topic varies from modeling dynamics to data analysis.

Main Research Interest: Data Science, Complex System, Computational Social Science, Science of Science, and its applications.

Main Methodology: Network analysis, Statistics, Game theory, Node Embedding, Natural language processing, etc.

II. RESEARCH EXPERIENCES

Research Assistant Professor, Center for Digital Humanities & Computational Social Sciences, Korea Advanced Institute of Science and Technology *Dec. 2024 - Present*

Visiting Research Scholar, Luddy School of Informatics, Computing, and Engineering, Indiana University *Aug. 2023 - Jul. 2024*

Research Assistant Professor, Institute for Social Data Science, Pohang University of Science and Technology *Jun. 2022 - Dec. 2024*

Postdoctoral Fellow, Soongsil University *Mar. 2021 - Feb. 2022*

Visiting Scholar, Soongsil University *Oct. 2020 - Feb. 2021*

III. EDUCATION

Ph.D., Pohang University of Science and Technology *Mar. 2014 - Feb. 2021*

Dissertation title: Bibliometric analysis on greedy strategy and evolution in academic system

Department of Industrial and Management Engineering

Advisor: Woo-Sung Jung

M.S., Pohang University of Science and Technology *Mar. 2012 - Feb. 2014*

Thesis title: Development of a console layout optimizer considering ergonomic design characteristics

Department of Industrial and Management Engineering

Advisor: Heecheon You

B.S., Pohang University of Science and Technology *Mar. 2007 - Feb. 2012*

Department of Industrial and Management Engineering

IV. SCHOLARLY ACCOMPLISHMENT

Papers under review

- [1] T. You, J. Park, J. Y. Lee, J. Yun (2024). Regional profile of questionable publishing. (R&R, *Scientometrics*), <https://arxiv.org/abs/2312.07844>.

International Journal Publications

- [7] S. Park, S. Park, T. You, J. Yun (2025). Social Links vs. Language Barriers: Decoding the Global Spread of Streaming Content, (Accepted, *Humanities and Social Sciences Communications*) (co-corresponding author with J. Yun), <https://arxiv.org/abs/2402.19329>

- [6] **T. You**, J. Park, J. Y. Lee, J. Yun (2024). Auditing citation polarization during the early COVID-19 pandemic. *Quantitative Science Studies*, 5(4), 906-921.
- [5] **T. You**, J. Park, J. Y. Lee, J. Yun, W.-S. Jung (2022). Disturbance of questionable publishing to academia. *Journal of Informetrics*, 16(2), 101294.
- [4] **T. You**, O.-H. Kwon, J. Yoon, W.-S. Jung (2021). Tracing the evolution of physics with a keyword co-occurrence network. *Journal of the Korean Physical Society*, 78(3), 236-243.
- [3] **T. You**, W.-S. Jung (2018). A System Dynamics Analysis of National R&D Performance Measurement System in Korea, *Industrial Engineering & Management Systems*, 17(4), 833-839.
- [2] **T. You**, M. Kwon, H.-H. Jo, W.-S. Jung, S. K. Baek (2017). Chaos and unpredictability in evolution of cooperation in continuous time. *Physical Review E*, 96(6), 062310.
- [1] H. Kim, **T. You**, S.-J. Ahn, W.-S. Jung (2016). Embracing networks of national policy research in future foresight, *International Journal of Knowledge-Based Development*, 7, 107-124.

International Conference Presentations

- [7] Understanding the Creativity through Evolution of Western Painting Art Using the Stable Diffusion Model, *10th International Conference on Computational Social Science* (2024). ([YouTube](#))
- [6] Understanding the Evolution of Western Painting Art Using the Stable Diffusion Model, *NetSciX 2024*, (2024).
- [5] Impact factor polarization during the COVID-19 pandemic, *The 27th International Conference on Science, Technology and Innovation Indicators (STI)* (2023).
- [4] Citation polarization during the COVID-19 pandemic, *9th International Conference on Computational Social Science* (2023). ([YouTube](#))
- [3] Collective profile of questionable publishing, *The 26th International Conference on Science, Technology and Innovation Indicators (STI)* (2022).
- [2] Alliance structure between UN Security Council members with debates, *NetSci 2020* (2020).
- [1] Comparing quality of questionable journal in academic ecosystem, *NetSciX 2020* (2020).

Patents

- [1] Method and device for extracting key keywords based on keyword joint appearance network, **T. You**, O.-H. Kwon, J. Yoon, W.-S. Jung, Korean Patent No. 1024982940000 (2023). (granted)

V. RESEARCH FUNDING

POSTECH Alchemist, supported by Pohang University of Science and Technology Oct. 2022 - Oct. 2023

Sejong science fellowship, supported by the National Research Foundation of Korea (NRF) Mar. 2022 - Present

VI. PROFESSIONAL SERVICES

Reviewer: PLOS One, EPJ Data Science, Humanities and Social Sciences Communications

Seminar Organizer: Complex Systems Research Exchange ([CREX](#))

Seminar:

- What is Journal Impact Factor meaning for now?, Sci-Sci in Korea workshop, 2024.11
- Large Language Model to Map Academic Publications KISTI, 2024.10
- 빅데이터 분석으로 살펴본 학계의 변화와 사회문제, 숭실대학교, 2023.05.
- 학술논문 데이터를 통해 살펴본 학계의 공정성, AI Frenz Seminar, 2022.07.
- 키워드 기반 네트워크 분석 동향, 한국과학기술정보연구원, 2020.11.

VII. OTHER PROJECT & TEACHING EXPERIENCES

ABM simulation of pedestrian dynamics in high school students

Mar. 2019 - Aug. 2019, at Pohangjecheol High School

Mathematical interpretation between two strategies in iterated Prisoners' Dilemma game

Mar. 2018 - Dec. 2018, at Pohangjecheol High School

TA: (IMEN491J) Special Lecture: Complex System Modeling and Simulation

Fall semester, 2015

TA: (IMEN491F) Entrepreneurship

Spring semester, 2014