

# SUKWOONG CHOI

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## ACADEMIC APPOINTMENTS

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**University at Albany, State University of New York** Albany, NY, September 2023 - Present  
Massry School of Business  
Assistant Professor

**Massachusetts Institute of Technology (MIT)** Cambridge, MA, July 2021 - August 2023  
Sloan School of Management  
Initiative on the Digital Economy (IDE)  
Computer Science & Artificial Intelligence Laboratory (CSAIL)  
Postdoctoral Scholar

## AFFILIATIONS & PROFESSIONAL SERVICE

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**MIT FutureTech and IDE**, Research Fellow 2023-  
**AI Plus, University at Albany, SUNY**, Faculty Affiliate 2023-

## EDUCATION

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**KAIST (Korea Advanced Institute of Science and Technology)** Daejeon, Korea, June 2019  
Ph.D., School of Business and Technology Management, College of Business (accredited by AACSB)

**Northwestern University** Evanston, IL, Jan 2019 - Mar 2019  
Kellogg School of Management, Management of Organizations (MORS)  
Visiting Ph.D. Student (Sponsored by Professor Hyejin Youn)

**University of California, Berkeley** Berkeley, CA, Jan 2018 - June 2019  
Haas School of Business, Management of Organizations (MORS)  
Visiting Ph.D. Student (Sponsored by National Research Foundation of Korea)

## RESEARCH INTERESTS

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- [1] Research Topics: Innovation, Entrepreneurship, and Economics of Information Systems
- [2] Methodologies: Econometrics, Big-Data Analysis, Machine Learning, and Social Network Analysis

## SELECTED JOURNAL ARTICLES

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- [1] **Choi, S.**, Moses, W. S., Thompson, N. The Quantum Tortoise and the Classical Hare: A simple framework for understanding which problems quantum computing will accelerate (and which it won't) *Proceedings of the IEEE*, 2025
- [2] **Choi, S.**, Kang, H., Kim, N., Kim, J. The Dual Edges of AI: Advancing Knowledge While Reducing Diversity *PNAS Nexus*, 2025  
- Finalist for the Best Paper of the 2023 Conference on Information Systems and Technology (CIST)
- [3] **Choi, S.**, Kang, H., Kim, N., Kim, J. How Does AI Improve Human Decision-Making? Evidence from the AI-Powered Go Program *Strategic Management Journal*, 2025  
- Winner for the Best Interdisciplinary Paper Award Strategic Human Capital in the SMS 2021

- Media Cover: MIT IDE Blog, State of AI Report 2021, The Chosun Ilbo (Leading Korean Daily Newspaper)

[4] Thompson, N., Dukatz, C., Shukla, P., **Choi, S.** Practical Quantum Computing is about More Than Just Hardware *California Management Review*, 2024

[5] **Choi, S.**, Kim, N., Kim, W. International Alliance Formation: The Effect of Technology Competition Networks *Journal of Business Research*, 2022

[6] Lee, Y., Kim, T., **Choi, S.**, Kim, W. (*Equally contributed*) When Does AI Payoff?: AI-Adoption Intensity, Complementary Investments, and R&D Strategy *Technovation*, 2022

- Media Cover: MIT Sloan, MIT IDE Research in Brief

## SELECTED WORKING PAPERS

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[1] Woo, H., **Choi, S.**, Kim, T. It Ain't Over 'Til It's Over: Post-IPO VC Ownership Effect on Innovation-Enhancing Investment of Newly Public Firms *Revise and Resubmit, Journal of Management*

[2] Kim, T., **Choi, S.**, Park, G., Kim, N. How Does Trade Protectionism Affect AI Investment in Firms? Evidence from the US-China Trade War

- Winner of the Best Paper Award in the Korean Society for Innovation Management and Economics (KOSIME) Summer Conference 2024

## ONGOING RESEARCH PROJECTS

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[1] How Does AI Improve Human Collaboration and Performance? Evidence from AI-powered X-ray Triage in University Hospitals (with H. Kang and N. Kim) *Writing a draft*

[2] Quantifying the impact of AI on Science (with Y. Yin and M. Sun) *Writing a draft*

[3] Algorithm Patents (with N. Thompson) *Data collection*

[4] Stay the Course? The Effects of Government Matching R&D Funding on Tech Startups (with Y. Lee, T. Kim, and W. Kim) *Working Paper*

## BOOK CHAPTERS

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[1] Choi, Sukwoong. How is Artificial Intelligence Affecting Individuals and Organizations? In Digital Power 2023: A Future Society Led by Digital Innovation. HadA Press. 2022. (Written in Korean)

## INVITED PRESENTATIONS, CONFERENCES, AND ACADEMIC PROGRAMS

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**2024-Present** (includes scheduled; presented by co-author\*): Economics of Quantum Information Technology Conference\*; MIT NextTech Summit 2024; Korea Labor Institute; Software Policy & Research Institute; Google DeepMind\*; MISQ Virtual Author Development Workshop; ISR Paper Development Workshop at ECIS 2024\*

**2023:** University at Albany, SUNY; Stonybrook University, SUNY; Imperial College London; Economics of Quantum Information Technology Conference\*; Druid 2023; AOM Annual Meetings; International Conference on Science of Science and Innovation (ICSSI); Conference on Information Systems and Technology (CIST); Informs Annual Meetings; 2023 Conference on Artificial Intelligence, Machine Learning, and Business Analytics; Software Policy & Research Institute

**2022:** Yonsei University; 3rd AI and Strategy Consortium; IP and Innovation (IPI) Seminar; the 2022 Wharton Technology and Innovation Conference; The Artificial Intelligence for Good Group (meetup, New York); 1st Wharton/Columbia Management, Analytics, and Data (MAD) Conference; Samsung Advanced Institute of Technology (Targeted to Vice Presidents of Technology); the Work in the Age of

Intelligent Machine (WAIM) Summer Conference; Carnegie School of Organizational Learning (CSOL) Academy; NBER Innovation Research Boot Camp; AOM Annual Meetings; STR Dissertation Consortium; Transatlantic Quantum Forum\*; Northwestern University (Center of Science of Science & Innovation (CSSI)); Bocconi University; Stevens of Institute Technology; 2022 Conference on Artificial Intelligence, Machine Learning, and Business Analytics; *Cancelled due to Covid-19: 15th Digital Economics Conference (Toulouse, France)*; *Could not attend due to Covid-19: the 5th Vienna Conference on Strategy, Organizational Design, and Innovation*

**2021:** NBER Economics of Artificial Intelligence Conference; MIT IDE Fall Seminar; AOM Annual Meetings; SMS Annual Conference; Conference on Artificial Intelligence, Machine Learning, and Business Analytics; Yonsei University; NBER Doctoral Student Workshop on Economics of Artificial Intelligence; *Could not attend due to Covid-19: DRUID (Copenhagen, Denmark)*

**2019-2020 & Before:** AOM Annual Meetings (2020, 2017); SMS Annual Conference (2019, 2017); University of Kentucky Colloquium (2019); NBER Entrepreneurship Bootcamp (2018); STR Managing Your Dissertation Workshop (2018); INSEAD Doriot Entrepreneurship Conference (Poster, 2018); TIM Doctoral Student Consortium (2017); MIS summer program at Harbin Institute of Technology (2017); KAIST College of Business Colloquium (2017)

## AWARDS, GRANTS, AND HONORS

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- [1] 2025 Premier Research Awards in University at Albany, SUNY (\$1,000)
- [2] 2025-26 Faculty Research Awards Programs (FRAP-B) in University at Albany, SUNY (\$3,133)
- [3] Winner of the Best Paper Award in the Korean Society for Innovation Management and Economics (KOSIME) Summer Conference 2024
- [4] 2023-24 Proposal Writing Course in University at Albany, SUNY (\$1,000)
- [5] Finalist for the Best Paper of the 2023 Conference on Information Systems and Technology (CIST) (Top 5 out of 208 papers accepted from 337 submissions)
- [6] Co-principal investigator, USC Marshall Institute for Outlier Research in Business Grant Program - "How Does AI Improve Human Decision-Making and Performance? Evidence from AI-powered X-ray Triage in University Hospitals" (with H. Kang and N. Kim) (2022-2023) (\$19,400)
- [7] NBER Grant for Summer Innovation Boot Camp (2022) (\$2,000)
- [8] Winner, Best Interdisciplinary Paper Award (Strategic Human Capital IG), SMS Conference (2021)
- [9] Kauffman Foundation Entrepreneurship Research to Practice Bootcamp (2020) (\$3,000) *Cancelled due to Covid-19*
- [10] NBER Grant for Summer Entrepreneurship Boot Camp (2018) (\$1,000)
- [11] National Research Funding (NRF) of Korea Fellowship for Social Science Korea - All but Dissertation (2017) (\$22,000)
- [12] Winner of the Best Paper Award, Asia-Pacific Journal of Business Venturing and Entrepreneurship (2017)
- [13] KAIST, College of Business Graduate Fellowships (2012-2016)

## TEACHING EXPERIENCE

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<b>Massry School of Business, University at Albany, SUNY</b>	Albany, NY
Analytics and Visualization (Graduate)	
Spring 2024, Instructor Rating: 4.8/5; Spring 2025(Session 1), Instructor Rating: 4.6/5; Spring 2025(Session 2), Instructor Rating: 4.9/5.	
Topics in Business Analytics (Undergraduate)	
Spring 2024, Instructor Rating: 4.2/5.	
Open Source Intelligence and Social Network Analysis (Graduate)	
Fall 2023, Instructor Rating: 4.5/5; Fall 2024, Instructor Rating: 4.8/5.	
Mathematical Methods for Information Security (Graduate)	
Fall 2023, Instructor Rating: 4.7/5; Fall 2024, Instructor Rating: 4.7/5.	

## OTHERS

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### Academic Service

University at Albany, SUNY, Dep. Tenure Track Search Committee 2023–present

University at Albany, SUNY, Dep. Visiting Assistant Professor Search Committee 2024

### Peer Review Activities

- *Peer-Review Journal Referee*: Strategic Management Journal, Journal of Business Venturing, Strategic Management Review, Journal of Economic Growth, Journal of Strategy and Management, Applied Economics Letters, the Journal of the Royal Statistical Society: Series A, Korean Economic Review

- *Peer-Review Conference Referee*: International Conference on Information Systems (ICIS), Korean Chapter of the Association for Information Systems (KRAIS), Strategic Management Society (SMS) Annual Conference, Academy of Management, STR, ENT, and TIM

- *Peer-Review Grant Referee*: Swiss National Science Foundation

### Research Assistant

RA for Abhishek Nagaraj, Assistant Professor of UC Berkeley, Mar. 2018 - Dec. 2018

Project Name: Improving Data Access Democratizes and Diversifies Science. Published at Proceedings of the National Academy of Sciences (PNAS, A. Nagaraj, E. Shears, and M. de Vaan, 2020).

### Programming

Languages: R, Python, Java

Statistical packages: Stata

Network Analysis: iGraph (R/Python), NetworkX (Python), UCINET, Gephi

### Support for Holding Academic Conferences

the 2015 AIEA-NBER conference, the 2022 Workshop on the Computational Foundations of Prosperity

## PREVIOUS WORK EXPERIENCE

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### University of Southern California

Los Angeles, CA, July 2020 - July 2021

Viterbi School of Engineering

Technology Innovation and Entrepreneurship

Postdoctoral Scholar

### University of Kentucky

Lexington, KY, July 2019 - June 2020

Gatton College of Business and Economics

Department of Management

Postdoctoral Scholar

Last Updated: June, 2025