SUKWOONG CHOI

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ACADEMIC APPOINTMENTS

University at Albany, State University of New York   Albany, NY, September 2023 - Present
Massry School of Business
Department of Information Systems and Business Analytics (ISBA)
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

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

EDUCATION

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

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

JOURNAL ARTICLES

[7] **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

[6] **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)

[5] **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

[3] Lee, Y., Kim, T., **Choi, S.**, Kim, W. When Does AI Payoff?: AI-Adoption Intensity, Complementary Investments, and R&D Strategy *Technovation*, 2022 (*Equally contributed*)
- Media Cover: MIT Sloan, MIT IDE Research in Brief

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

[1] **Choi, S.**, Kim, N., Kim, W. Are social entrepreneurs more risk-averse? *Applied Economics Letters*, 2019

WORKING PAPERS

[3] Woo, H., **Choi, S.**, Kim, T. VC Ownership and Innovation in Newly Public Firms *Revise and Resubmit* (*Co-first authors; reverse alphabetical order*)

[2] Kim, T., **Choi, S.**, Park, G., Kim, N. Competition and Firm innovation *Under Review* (*Co-first authors; reverse alphabetical order*)
- Winner of the Best Paper Award in the Korean Society for Innovation Management and Economics (KOSIME) Summer Conference 2024

[1] Kang, H., Shin, H., **Choi, S.**, Kim, E., Kim, N. Causal Impact of AI-Augmented Chest Radiography on Emergency Department Decision-Making: A Regression Discontinuity Analysis

ONGOING RESEARCH PROJECTS

[3] Breaking Digitial Addition in the Age of AI: The Roles of Reward Sensitivity, Goal Setting, and Incentives (with J. Kuem) *Data Analysis*

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

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

BOOK CHAPTERS

[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

2025-Present: University at Albany, SUNY (AI Workshop); Sungkyunkwan University

2024 (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

[15] 2025-26 AI & Society Faculty Innovation Fellowship in University at Albany, SUNY ($5,000)

[14] 2025-26 AI & Society Research Fellowship in University at Albany, SUNY ($4,977)

[13] 2025-26 Faculty Research Awards Programs (FRAP-B) in University at Albany, SUNY ($3,133)

[12] 2025 Premier Research Awards in University at Albany, SUNY ($1,000)

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

[10] 2023-24 Proposal Writing Course in University at Albany, SUNY ($1,000)

[9] 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)

[8] 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)

[6] Winner, Best Interdisciplinary Paper Award (Strategic Human Capital IG), SMS Conference (2021)

[5] Kauffman Foundation Entrepreneurship Research to Practice Bootcamp (2020) ($3,000) *Cancelled due to Covid-19*

[4] NBER Grant for Summer Entrepreneurship Boot Camp (2018) ($1,000)

[3] National Research Funding (NRF) of Korea Fellowship for Social Science Korea - All but Dissertation (2017) ($22,000)

[2] Winner of the Best Paper Award, Asia-Pacific Journal of Business Venturing and Entrepreneurship (2017)

[1] KAIST, College of Business Graduate Fellowships (2012-2016)

TEACHING EXPERIENCE

Massry School of Business, University at Albany, SUNY   Albany, NY
Analytics and Visualization (Graduate)
    Spring 2025(Session 1), Instructor Rating: 4.6/5; Spring 2025(Session 2), Instructor Rating: 4.9/5
    Spring 2024, Instructor Rating: 4.8/5

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

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*: Management Science, Strategic Management Journal, Journal of Business Venturing, Journal of Management Studies, Strategic Management Review, Journal of Economic Growth, Journal of Strategy and Management, Applied Economics Letters, 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 (AOM), STR, ENT, and TIM
- *Peer-Review Grant Referee*: Swiss National Science Foundation

Ph.D. Student Advising
Hassanzadeh, Mehdi (Information Science; Dissertation Committee Member)

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

PREVIOUS WORK EXPERIENCE

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: October, 2025