

SUKWOONG CHOI

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ACADEMIC APPOINTMENTS

University at Albany, SUNY School of Business Department of Information Systems and Business Analytics Business Artificial Intelligence Assistant Professor	Albany, NY, September 2023 - Present
Massachusetts Institute of Technology Sloan School of Management Initiative on the Digital Economy (IDE) Computer Science & Artificial Intelligence Laboratory (CSAIL) Postdoctoral Scholar	Cambridge, MA, July 2021 - August 2023
University of Southern California Viterbi School of Engineering Technology Innovation and Entrepreneurship Postdoctoral Scholar	Los Angeles, CA, July 2020 - July 2021
University of Kentucky Gatton College of Business and Economics Department of Management Postdoctoral Scholar	Lexington, KY, July 2019 - June 2020

AFFILIATIONS & PROFESSIONAL SERVICE

Information Science, University at Albany, SUNY , Faculty Affiliate	2023-
MIT Sloan School of Management , Research Fellow	2023-

RESEARCH INTERESTS

- [1] Research Topics: Innovation, Entrepreneurship, and Economics of Artificial Intelligence (AI)
- [2] Methodologies: Econometrics, Big-Data Analysis, Machine Learning, and Social Network Analysis

EDUCATION

KAIST (Korea Advanced Institute of Science and Technology) Ph.D., School of Business and Technology Management, College of Business	Daejeon, Korea, June 2019
Northwestern University Kellogg School of Management, Management of Organizations (MORS) Visiting Ph.D. Student (Sponsored by Professor Hyejin Youn)	Evanston, IL, Jan 2019 - Mar 2019
University of California, Berkeley Haas School of Business, Management of Organizations (MORS) Visiting Ph.D. Student (Sponsored by National Research Foundation of Korea)	Berkeley, CA, Jan 2018 - June 2019

SELECTED WORKING PAPERS

- [1] How Does AI Improve Human Decision-Making? Evidence from the AI-Powered Go Program (with H. Kang, N. Kim, and J. Kim) *Revise and Resubmit*
 - 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)
- [2] It Ain't Over 'Til It's Over: Post-IPO VC Ownership Effect on Innovation-Enhancing Investment of Newly Public Firms (with T. Kim and H. Woo) *Revise and Resubmit*
- [3] Quantum Economic Advantage: A Framework for CXOs (with N. Thompson, P. Shukla, and C. Dukatz) *Submitted*
 - Media Cover: MIT IDE Blog
- [4] The Quantum Tortoise and the Classical Hare: An analysis of which problems quantum computing will accelerate (and which it won't) (with W. Moses and N. Thompson) *Submitted*
 - Media Cover: Yahoo Finance, MIT IDE Blog, MIT Sloan News

ONGOING RESEARCH PROJECTS

- [1] Stay the Course? The Effects of Government Matching R&D Funding on Tech Startups (with Y. Lee, T. Kim, and W. Kim) *Working Paper*
- [2] Standing on the Shoulders of AI? Knowledge Creation by Learning from AI (with H. Kang, N. Kim, and J. Kim) *Working Paper*
 - Finalist for the Best Paper of the 2023 Conference on Information Systems and Technology (CIST)
- [3] How Does Competition Affect AI Investment in Firms? Evidence from a Quasi-Natural Experiment in the United States (with T. Kim and G. Park) *Writing a Draft*
- [4] How Does AI Improve Human Collaboration and Performance? Evidence from AI-powered X-ray Triage in University Hospitals (with H. Kang and N. Kim) *Data Analysis*

REFEREED JOURNAL ARTICLES

- [1] When Does AI Payoff?: AI-Adoption Intensity, Complementary Investments, and R&D Strategy (with T. Kim, W. Kim, and Y. Lee (*Equally contributed*)) *Technovation*, 2022
 - Media Cover: MIT Sloan, MIT IDE Research in Brief
- [2] International Alliance Formation: The Effect of Technology Competition Networks (with N. Kim and W. Kim) *Journal of Business Research*, 2022
- [3] Are Social Entrepreneurs More Risk-Averse? (with N. Kim and W. Kim) *Applied Economics Letters*, 2019
- [4] An Empirical Study on Successful Crowdfunding (with D. Lee, J. Kim, and W. Kim) *Asia-Pacific Journal of Business Venturing and Entrepreneurship* (KCI), 2017
(Written in Korean / Winner of the Best Paper Award)

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

2023-Present (includes scheduled): 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); Inform's Annual Meetings; 2023 Conference on Artificial Intelligence, Machine Learning, and Business Analytics;

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)

HONORS, GRANTS, AND FELLOWSHIPS

- [1] Co-investigator, Finance, Competitiveness & Innovation Global Practice, World Bank Group - "The Effects of Government Matching R&D Funds on Tech Startups: The Case of Korea's TIPS Program" (with Y. Lee, T. Kim, and W. Kim) (2022-2023) (\$20,000)
- [2] 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)
- [3] NBER Grant for Summer Innovation Boot Camp (2022) (\$2,000)
- [4] 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*
- [6] NBER Grant for Summer Entrepreneurship Boot Camp (2018) (\$1,000)
- [7] National Research Funding (NRF) of Korea Fellowship for Social Science Korea - All but Dissertation (2017) (\$22,000)
- [8] Winner, Best Paper Award, Asia-Pacific Journal of Business Venturing and Entrepreneurship (2017)
- [9] KAIST, College of Business Graduate Fellowships (2012-2016)

TEACHING EXPERIENCE

Mathematical Methods for Information Security (Graduate Course Instructor at Massey School of Business) Fall 2023, Rating 4.7/5
Open Source Intelligence and Social Network Analysis (Graduate Course Instructor at Massey School of Business) Fall 2023, Rating 4.5/5

Managing Social and Organizational Networks (Undergraduate Course Instructor at Gatton B-School)
Spring 2020, Rating 4.2/5
Social Dynamics and Network Analysis (MBA Course TA at Kellogg B-School) Winter 2019
Innovation and Technology Management (Graduate Course TA) Spring 2016, Fall 2016
Econometrics (Undergraduate Course TA) Spring 2015, Fall 2015
Organization Theory (Graduate Course TA) Spring 2014
Research Methodology I (Graduate Course TA) Spring 2013, Fall 2013

OTHERS

Research Assistantship

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

Academic Service

Peer-Review Journal Referee: Journal of Business Venturing, Journal of Economic Growth, Journal of Strategy and Management, Applied Economics Letters, the Journal of the Royal Statistical Society: Series A
Peer-Review Grant Referee: Swiss National Science Foundation
Academy of Management, STR, ENT, and TIM Reviewer 2016-2021
SMS Annual Conference Reviewer 2022

Support for Holding Academic Conferences

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

Military Service

Serving military service at KAIST as the Technical Research Personnel for 3 years (2014-2016)

REFERENCES

Neil Thompson, Sloan School of Management and CSAIL, MIT, neil_t@mit.edu
Yong Suk Lee, Technology, Economy, and Global Affairs, University of Notre Dame, yong.s.lee@nd.edu
Hyo Kang, Marshall School of Business, University of Southern California, hyokang@marshall.usc.edu
Wonjoon Kim, College of Business, KAIST, wonjoon.kim@kaist.edu
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