

SUKWOONG CHOI

100 Main St, Cambridge, MA 02142
sukwoong@mit.edu

ACADEMIC APPOINTMENTS

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 - Present
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

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
KAIST (Korea Advanced Institute of Science and Technology) B.S. Mathematical Science, B.E. Management Science	Daejeon, Korea, Feb 2012

SELECTED WORKING PAPERS

- [1] How Does AI Improve Human Decision-Making? Evidence from the AI-Powered Go Program (with N. Kim, J. Kim, and H. Kang) (Under Review at **Strategic Management Journal**)
 - 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) (R&R at **Journal of Management**)

ONGOING RESEARCH PROJECTS

- [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) Work in progress, to be submitted to *Strategic Management Journal*
- [2] How Does AI Affect Human Knowledge? The Paradigm Shift by AI (with H. Kang and N. Kim) Work in progress, to be submitted to *Management Science*
- [3] Generalized Algorithmic Improvement and Firm Value (with N. Ahmed and N. Thompson) Work in progress, to be submitted to *Management Science*
- [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, to be submitted to *Research Policy*
- [5] The Dynamics of Entrepreneurship Research: A Topic Modeling Analysis and Research Agenda (with W. Kim and K. Lee) Under Review

SELECTED REFEREED JOURNAL ARTICLES

- [1] International Alliance Formation: The Effect of Technology Competition Networks (with N. Kim and W. Kim) *Journal of Business Research*, 2022
- [2] 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
- [3] 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)

INVITED PRESENTATIONS, CONFERENCES, AND ACADEMIC PROGRAMS

2022-Present (includes scheduled): 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; TEDxGateway Webinar Series; (*Co-author presentation*) *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*

2020-2021: 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-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)

- [2] NBER Grant for Summer Innovation Boot Camp (2022) (\$2,000)
- [3] Winner, Best Interdisciplinary Paper Award (Strategic Human Capital IG), SMS Conference (2021)
- [4] Kauffman Foundation Entrepreneurship Research to Practice Bootcamp (2020) (\$3,000) *Cancelled due to Covid-19*
- [5] NBER Grant for Summer Entrepreneurship Boot Camp (2018) (\$1,000)
- [6] National Research Funding (NRF) of Korea Fellowship for Social Science Korea - All but Dissertation (2017) (\$22,000)
- [7] Winner, Best Paper Award, Asia-Pacific Journal of Business Venturing and Entrepreneurship (2017)
- [8] KAIST, College of Business Graduate Fellowships (2012-2016)

TEACHING EXPERIENCE

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 Strategy and Management, Applied Economics Letters
Peer-Review Grant Referee: Swiss National Science Foundation
Academy of Management, TIM Reviewer 2016-2021
Academy of Management, STR Reviewer 2016-2021
SMS Annual Conference Reviewer 2022

Military Service

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

REFERENCES

Neil Thompson (PI), Initiative on the Digital Economy, MIT, neil_t@mit.edu
Abhishek Nagaraj, Haas School of Business, UC Berkeley, nagaraj@berkeley.edu
Hyo Kang, Marshall School of Business, University of Southern California, hyokang@marshall.usc.edu
Yong Suk Lee, Technology, Economy, and Global Affairs, University of Notre Dame, yong.s.lee@nd.edu
Namil Kim, School of Management, Harbin Institute of Technology, namil.kim@hit.edu.cn