

SUKWOONG CHOI

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ACADEMIC APPOINTMENTS

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| 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, Economics of Artificial Intelligence (AI)
- [2] Methodologies: Econometrics, Big-Data Analysis, Machine Learning, Social Network Analysis

EDUCATION

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| 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) (Working 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) (Working in progress, to be submitted to *Management Science*)
- [3] The Usage of Algorithm and Firm Value (with N. Ahmed and N. Thompson) (Working 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- (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 Hyo Kang and Namil 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, Nagaraj, A., Shears, E., & de Vaan, M. (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