Hyunuk Kim

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ACADEMIC POSITIONS

Boston University, Boston, MA, USA	
Postdoctoral Associate, Questrom School of Business (affiliated with Institute for Health System Innovation & Policy) Advisor: Prof. Dylan Walker	Aug 2019 – Current
Northwestern University, Evanston, IL, USA Visiting Predoctoral Fellow, Kellogg School of Management (affiliated with Northwestern Institute on Complex Systems) Advisor: Prof. Hyejin Youn	Jan 2018 – Jul 2019
Santa Fe Institute, Santa Fe, NM, USA Visiting Student Researcher	Feb 2016 – Mar 2016

EDUCATION

Pohang University of Science and Technology, Pohang, Republic of Korea	
Ph.D. in Industrial and Management Engineering	Sep 2016 – Aug 2019
Advisor: Prof. Woo-Sung Jung	
Dissertation: Collective patterns and dynamics of knowledge creation	
M.S. in Industrial and Management Engineering	Sep 2014 – Aug 2016
B.S. in Mathematics (minor in Industrial and Management Engineering)	Mar 2007 – Feb 2013

RESEARCH INTERESTS

Computational Social Science (collective learning, collaboration)
Network Science (growth model, community detection)
Innovation (foresight, technological change, evolutionary dynamics)
Misinformation (social media, healthcare, intervention)

PUBLICATIONS

Hyunuk Kim, Sang-Jin Ahn, and Woo-Sung Jung, "Horizon scanning in policy research database with a probabilistic topic model," *Technological Forecasting & Social Change*, vol. 146, pp. 588–594, 2019.

Hyunuk Kim, Inho Hong, and Woo-Sung Jung, "Measuring national capability over big science's multidisciplinarity: A case study of nuclear fusion research," *PLoS One*, vol. 14, no. 2, e0211963, 2019.

Hyunuk Kim and Woo-Sung Jung, "Does pitch type-zone uncertainty matter to pitcher's performance?," *New Physics: Sae Mulli*, vol. 68, no. 6, 2018.

Hyunuk Kim, Taekho You, Sang-Jin Ahn, and Woo-Sung Jung, "Embracing networks of national policy research in future foresight," *International Journal of Knowledge-Based Development*, vol. 7, no. 2, pp. 107–124, 2016.

Hyunuk Kim and Woo-Sung Jung, "Bibliometric analysis of collaboration network and the role of research station in Antarctic science," *Industrial Engineering & Management Systems*, vol. 15, no. 1, pp. 92–98, 2016.

Hyunuk Kim, Sang-Jin Ahn, and Woo-Sung Jung, "A study on technology forecasting based on co-occurrence network of keyword in multidisciplinary journals," *The Korean Operations Research and Management Science Society*, vol. 40, no. 4, pp. 49–63, 2015.

WORKING PAPERS

Hyunuk Kim, Marcus J. Hamilton, Woo-Sung Jung, Yuri Berezkin, and Hyejin Youn, "The global structure of myths and folktales"

Hyunuk Kim, Young-Ho Eom, Daniel Kim, Hawoong Jeong, Woo-Sung Jung, and Hyejin Youn, "Building knowledge space from microscopic behaviors to macroscopic structure"

Hyunuk Kim and Dylan Walker, "Identifying and correcting misinformation online on antibiotic use and antimicrobial resistance"

TALKS

Growing network model for knowledge space: micro to macro views <i>Dynamics Days</i> 2019, Evanston, USA	Jan 04, 2019
Reconstructing technology space from a secret recipe of high impact innovation 4th Annual International Conference on Computational Social Science, Evanston, USA	Jul 15, 2018
The structure of mythologies explains early human migrations out of Africa 4th Annual International Conference on Computational Social Science, Evanston, USA	Jul 13, 2018
Building technology space from microscopic dynamics to macro structure Conference on Complex Systems 2017, Cancun, Mexico	Sep 20, 2017
The structure of mythologies explains the human expansion out of Africa Conference on Complex Systems 2017, Cancun, Mexico	Sep 20, 2017
Measuring the impact of Tesla's open patents on electric vehicle market Korean Institute of Industrial Engineers Fall Conference 2016, Seoul, Republic of Korea	Nov 19, 2016
Fusion of nations, fusion of disciplines: network evolution in nuclear fusion research <i>Conference on Complex Systems</i> 2016, Amsterdam, Netherlands	Sep 20, 2016
Predicting future issues with keyword network of national policy research SOItmC & Knowledge Cities World Summit 2015, Daegu, Republic of Korea	Jun 16, 2015

HONORS & AWARDS

HONORS

-	Global PhD Fellow, Ministry of Education, Republic of Korea	Mar 2017 – Aug 2019
-	Creative KISTEP Fellow, KISTEP, Republic of Korea	Apr 2017 – Aug 2017
-	Asan Young Fellow, Asan Institute for Policy Studies, Republic of Korea	Apr 2013 – Dec 2013

AW

VAR	DS	
-	Nonprofit Startup Incubator Program, Seoul NPO Center, Republic of Korea	Jun 2018 – Dec 2018
	(Blockchain for in-kind donation)	
-	First Prize, Department Research Contest, POSTECH	Jan 2017
-	Excellence Award, The 12th Master's Student Research Contest,	Nov 2016
	KIIE Fall Conference 2016 (KIIE: Korean Institute of Industrial Engineers)	
-	Encouraging Paper, SOItmC & Knowledge Cities World Summit 2015	Jun 2015

TEACHING & ADVISING

COURSE DEVELOPMENT

Python and Neural Networks, Boston University, USA (with Prof. Dylan Walker)

Fall 2019, Winter 2020

TEACHING ASSISTANT

-	Python and Neural Networks, Boston University, USA	Winter 2020
-	Social Dynamics and Network Analysis – Genius Bar	Spring 2018, Winter 2019
	Northwestern University, USA	

ADVISING

-	Jungmin Kwon, Undergraduate in Physics, POSTECH	2016
-	Joo Hong Min, Undergraduate in Physics, POSTECH	2016

REFERENCES

Dr. Woo-Sung Jung, Associate Professor Department of Industrial and Management Engineering / Physics Pohang University of Science and Technology, Pohang 37673, Republic of Korea wsjung@postech.ac.kr

Dr. Hyejin Youn, Assistant Professor Management & Organizations Department at Kellogg School of Management Northwestern University, Evanston, IL 60208, USA hyejin.youn@kellogg.northwestern.edu

Dr. Dylan Walker, Assistant Professor Information Systems Department at Questrom School of Business Boston University, Boston, MA 02215, USA dtwalker@bu.edu