

Hyunuk Kim

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EDUCATION	Pohang University of Science and Technology (POSTECH) , Pohang, Republic of Korea	
	▪ Ph.D. Candidate in Industrial and Management Engineering	Sep 2016 – Present
	• Advisor: Prof. Woo-Sung Jung	
ACADEMIC POSITIONS	▪ 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
	Kellogg School of Management, Northwestern University , Evanston, IL, USA (affiliated with Northwestern Institute on Complex Systems)	
RESEARCH INTERESTS	▪ Visiting Pre-Doctoral Fellow	Jan 2018 – Feb 2019
	• Advisor: Prof. Hyejin Youn	
	Santa Fe Institute , Santa Fe, NM, USA	
PUBLICATIONS	▪ Visiting Student Researcher	Feb 2016 – Mar 2016
	Computational Social Science (collective learning, collaboration)	
	Network Science (growth model, community structure)	
WORKING PAPERS	Innovation (foresight, technological change, evolutionary dynamics)	
	Blockchain (decentralized applications to donation, market ecosystem)	
	Hyunuk Kim, Sang-Jin Ahn, and Woo-Sung Jung, “Horizon scanning in policy research database with a probabilistic topic model”, <i>Technological Forecasting & Social Change</i> , in press.	
PRESENTATIONS	Hyunuk Kim and Woo-Sung Jung, “Does pitch type-zone uncertainty matter to pitcher’s performance?”, <i>New Physics: Sae Mulli</i> , 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”, <i>International Journal of Knowledge-Based Development</i> , 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”, <i>Industrial Engineering & Management Systems</i> , vol. 15, no. 1, pp. 92–98, 2016.	
PUBLICATIONS	Hyunuk Kim, Sang-Jin Ahn, and Woo-Sung Jung, “A study on technology forecasting based on co-occurrence network of keyword in multidisciplinary journals”, <i>The Korean Operations Research and Management Science Society</i> , vol. 40, no. 4, pp. 49–63, 2015.	
	Hyunuk Kim, Inho Hong, and Woo-Sung Jung, “Measuring national capability over big science’s multidisciplinary: A case of nuclear fusion research”, under review, <i>PLoS One</i> .	
	Hyunuk Kim, Daniel Kim, Young-Ho Eom, Hawoong Jeong, Woo-Sung Jung, and Hyejin Youn, “Building knowledge space from microscopic behaviors to macro structure”	
WORKING PAPERS	Hyunuk Kim, Marcus J. Hamilton, Woo-Sung Jung, and Hyejin Youn, “The deep structure of global mythologies”	
	Growing network model for knowledge space: micro to macro views	04 Jan 2019
	<i>Dynamics Days 2019</i> , Evanston, USA	
PRESENTATIONS	Reconstructing technology space from a secret recipe of high impact innovation	15 Jul 2018
	<i>4th Annual International Conference on Computational Social Science</i> , Evanston, USA	
	The structure of mythologies explains early human migrations out of Africa	13 Jul 2018
PRESENTATIONS	<i>4th Annual International Conference on Computational Social Science</i> , Evanston, USA	
	Building technology space from microscopic dynamics to macro structure	20 Sep 2017
	<i>Conference on Complex Systems 2017</i> , Cancun, Mexico	

The structure of mythologies explains the human expansion out of Africa <i>Conference on Complex Systems 2017</i> , Cancun, Mexico	20 Sep 2017
Measuring the impact of Tesla's open patents on electric vehicle market <i>Korean Institute of Industrial Engineers Fall Conference 2016</i> , Seoul, Republic of Korea	19 Nov 2016
Fusion of nations, fusion of disciplines: network evolution in nuclear fusion research <i>Conference on Complex Systems 2016</i> , Amsterdam, Netherlands	20 Sep 2016
Predicting future issues with keyword network of national policy research <i>SOItmC & Knowledge Cities World Summit 2015</i> , Daegu, Republic of Korea	16 Jun 2015

HONORS & AWARDS

HONORS

2017 Global PhD Fellow, Ministry of Education, Republic of Korea National PhD fellowship program for accepted research proposals Project: "Evolutionary dynamics of technological innovation"	Mar 2017 – Feb 2020
Creative KISTEP Fellow, KISTEP, Republic of Korea (KISTEP: Korea Institute of S&T Evaluation and Planning) Project: "Analyzing S&T knowledge structure by community detection in multislice network"	Apr 2017 – Aug 2017
Asan Young Fellow, Asan Institute for Policy Studies, Republic of Korea Education program for Philosophy, Politics, and Economics Internship at American Association for the Advancement of Science (AAAS), USA	Apr 2013 – Dec 2013

AWARDS

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

EXPERIENCES

Co-founder, Prisming: Blockchain for in-kind donation, Republic of Korea	2018
Research Intern, American Association for the Advancement of Science (AAAS), USA	2013
Military Service, Republic of Korea Marine Corps, Republic of Korea	2011 – 2012

REFERENCES

- Dr. Woo-Sung Jung, *Associate Professor*
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- Dr. Hyejin Youn, *Assistant Professor*
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Northwestern University, Evanston, IL 60208, USA
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- Dr. Marcus J. Hamilton, *Associate Professor of Data Analytics*
Department of Anthropology
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