Munjung Kim

Education & Training	Indiana University BloomingtonDoctor of Philosophy, InformaticsAdvisor: Dr. Yong-Yeol Ahn		Aug 2022–Present	
	Pohang University of Science and Technology <i>Bachelor of Science</i> , Physics		Feb 2017 - Feb 2022	
	Santa Fe Institute Complex Systems Summer School		Jun 2023 - July 2023	
Work Experience	 Nokia Bell Labs Research Intern Identifying job tasks expected to be impacted by disruptive AI tech embeddings, and patent citation network analysis [W2] 		<i>Cambridge, UK</i> June 2024– Aug 2024 mologies using LLMs, text	
	SK Hynix Quality Control Intern		<i>Icheon, South Korea</i> Jan 2020– Feb 2020	
Research Interest	Machine Learning (network representation learning, language model) Computational Social Science (innovation, science of science, research topic selection)			
Working Papers	[W1]	Munjung Kim and Yong-Yeol Ahn. <i>Mitigating Imitative Falsehood</i> sourcing Techniques.	ds in LLMs Through Crowd-	
	[W2]	W2] Munjung Kim , Marios Constantinides, Sanja Šćepanović, Yong-Yeol Ahn, and Daniele Quercia. <i>Augmenting Minds or Automating Routines? The Potential Impact of Disruptive AI</i> <i>Innovations on U.S. Occupations</i> .		
	[W3]	[W3] Munjung Kim , Sadamori Kojaku, and Yong-Yeol Ahn. <i>Uncovering simultaneous scientific breakthroughs with a robust measure of disruptiveness</i> . Submitted to <i>Nature</i> . [Draft] [github].		
	[W4] Rachith Aiyappa, Xin Wang, Munjung Kim , Ozgur Can Seckin, Jisung Yoon, Yong-Yeol Ahn, and Sadamori Kojaku. "Implicit degree bias in the link prediction task". <i>arXiv preprint arXiv</i> :2405.14985 (2024).			
Publications	[A1]	[A1] Munjung Kim , Tuğrulcan Elmas, and Filippo Menczer. "Toxic Synergy Between Hate Speech and Fake News Exposure". <i>Proceedings of the 18th International AAAI Conference on Web and Social Media (ICWSM 2024)</i> (2024).		
	[A2] Matthew R DeVerna, Rachith Aiyappa, Wanying Zhao, Manita Pote, Bao Tran Truong, David Axelrod, Aria Pessianzadeh, Zoher Kachwala, Munjung Kim , Ozgur Can Seckin, et al. "A multi-platform collection of social media posts about the 2022 US midterm elec- tions". <i>Proceedings of the international AAAI conference on web and social media</i> (2023).			
	[A3] Munjung Kim, Jisung Yoon, Woo-Sung Jung, and Hyunuk Kim. "Quantifying the topic disparity of scientific articles". <i>Companion Proceedings of the Web Conference</i> 2022 (2022), pp. 769–773.			
Oral	Invite	ed Talks		
Presentations	• K. • SN	• KDI School Special Lecture12/17/2024• KAIST STP Science of Science Research Seminar12/18/2024• SNU Business School Workshop01/03/2025• KISTI01/24/2025		

Contributed Talks

	Munjung Kim , Sadamori Kojaku, and Yong-Yeoal Ahn. "A Continuous Embedding Mea- sure of Disruptiveness Reveals Hidden Simultaneous Disruption". IC2S2. 2024.
	Munjung Kim , Sadamori Kojaku, and Yong-Yeoal Ahn. "Quantifying disruptiveness using neural embedding method". Netsci 2023. 2023.
	Munjung Kim , Jisung Yoon, Hyunuk Kim, and Woo-Sung Jung. "Neural embedding of research papers reveals characteristics of policy research institutes". Networks 2021: A Joint Sunbelt & NetSci Conference. 2021.
	Munjung Kim . "Quantitative Analysis on Institutions' Activity Policy Research with Embedding Method". Korea Academy of Complexity Studies. 2019.
	Munjung Kim , Jisung Yoon, and Woo-Sung. "Quantitative Analysis on Institutions' Activity Policy Research with Embedding Method". Korea Academy of Complexity Studies. 2019.
Honors &Awards	Humane Studies Fellowship, Institute for Humane Studies, 2024/ ca. \$5,000
an waras	National Scholarship for Excellence (Sci. & Eng.), Korea Student Aid Foundation,
	2017-2021 / ca. \$20,000 Global Talent Attraction Program (Postponed due to Covid19), Indiana University, 2020 / ca. \$4,000
	Semester of High Honor, 2019, 2020, 2021 Senior Mentoring Program Scholarship, 2019,2020
Skills	Computer Language : Python, R, Matlab, C, C++, Cython
	Workflow for Reproducible Data Analysis: Snakemake
	Analysis Modules: Pytorch, Sci-kit Learn, Numpy, Scipy, Pandas, igraph, NetworkX
	Languages: English (Proficient), Korean (Native)
Service	Journal Reviewer
	• 2025 Nature Matters Arising
	Conference Reviewer
	 International Society for Scientometrics and Informetrics 2023 conference
	 International Workshop on Cyber Social Threats (CySoc '23) International Workshop on Cyber Social Threats (CySoc '24)
	International Workshop on Cyber Social Threats (CySoc '24)
References	Dr. Yong-Yeol Ahn, Associate Professor
	Luddy Shool of Informatics, Computing, and Engineering
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	Dr. Hyunuk Kim, Assistant Professor
	Business Analytics
	Elon University, Elon, NC, USA hkim6@elon.edu
	Dr. Sadamor Kojaku, Assistant Professor
	Systems Science and Industrial Engineering
	Binghamton University, Binghamton, NY, USA skojaku@binghamton.edu
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