Jinhyuk Yun

CONTACT INFORMATION	Future Technology Analysis Center, Korea Institute of Science and Technology Information (Seoul Office), 66 Hoegiro, Dongdaemun-gu, Seoul, 02456, Republic of Korea	FAX: +82-2-32 E-mail: jinhyu	TEL: +82-2-3299-6061 FAX: +82-2-3299-6219 E-mail: jinhyuk.yun@kisti.re.kr Web: https://bluekura.github.io		
Academic · Industrial	KISTI, Seoul, South Korea Senior Research Scientist, Future Technolog	y Analysis Center	Dec 16 – present		
Positions	Naver Corporation, Seongnam, South Korea Data Scientist, Naver Search		Aug 16 – Dec 16		
	KAIST, Daejeon, South Korea Research Assistant Teaching Assistant		Feb 13 – Aug 16 Feb 11 – Dec 12		
EDUCATION	Ph.D. Physics, KAIST (Daejeon, South Korea), August 2016				
	• Thesis topic: Theoretical study on a Spreading in Human Society				
	• Advisor: Professor Hawoong Jeong				
	B.S. Physics, KAIST (Daejeon, South Korea), February 2010				
	Exchange Student, INSA (Lyon, France), Aug. 2008 - Jul. 2009				
TEACHING AND ADVISING	Teaching Assistant, KAIST Statistical Physics Thermal Physics Advanced Physics II Advanced Physics I		Fall 2012 Spring 2012 Fall 2011 Spring 2011		
	Student Training Program, KISTI Young Jin Kim (Ph.D.), Hanyang University	V	2018 - 2019		
	Ph.D. thesis review Young Jin Kim, Hanyang University		2019		

GRANT, AWARDS, AND FELLOWSHIPS

Grants

 PI, National Research Foundation of Korea (Strategic Project on the Industrial Mathematics), Study on the Knowledge Ecosystem of 4th Industrial Revolution using Big Data, 09/2017–08/2020

Awards

- Outstanding Young Researcher Award, Korea Institute of Science and Techonlogy Information (Daejeon, South Korea), 2012
- \bullet Young Investigator Training Award, Challenges in Data Science (Matera, Italy), 2016
- Best project award (1st prize), The 5th KIAS CAC Summer School on Parallel Computing (Seoul, South Korea), 2014
- Bronze award, The 5th BK21 Young Physicists Workshop (Daejeon, South Korea), 2012

Scholarship

- National Graduate Science & Technology Scholarship, 02/2010–12/2015
- National Underaduate Science & Technology Scholarship, 03/2005–12/2009

RESEARCH Interets

Data Science, Network Science, Artificial Intelligence, Machine Learning, Modeling Human Behavior, Computational Social Science, Econophysics, Cultural Science, Science of Science, Scientometrics

PUBLICATIONS

Articles

- Jinhyuk Yun, S.H. Lee, and H. Jeong, Early onset of structural inequality in the formation of collaborative knowledge in all Wikimedia projects, Nature Human Behaviour (2019)
- Jisung Yoon, Jinhyuk Yun, Woo-Sung Jung, Build Up of a Subject Classification System from Collective Intelligence, New Phys.: Sae Mulli 68, 647 654 (2018)
- Jinhyuk Yun, S.H. Lee, and H. Jeong, Intellectual interchanges in the history of massive online open-editing encyclopedia, Wikipedia, Phys. Rev. E 93, 012307 (2016)
- Jinhyuk Yun, P.-J Kim, and H. Jeong, Anatomy of scientific evolution, PLoS ONE 10(2): e0117388 (2015)
- Jinhyuk Yun, S. Ahn, and J.Y. Lee, On the Heterogeneous Distributions in Paper Citations (submitted)

Books and reports

• Jinhyuk Yun and Young Jin Kim, Future of the open innovation on the GitHub, KISTI Data Insight No.3 (2018)

SELECTED TALKS

Invited conference talks and lectures

• AI+X Forum: AI+Applied Science (Daejeon, South Korea)	6/21/2019
• AI Friends Forum (Daejeon, South Korea)	6/19/2019
• Econophysics Workshop (Gwangju, South Korea)	11/16/2018
• The 5th International Workshop on Physics of Social Complexity	
(Pohang, South Korea)	2/11/2017

Inv

vited colloquia and seminars		
• School of Informatics, Computing & Engineering, Indiana University Bloomington (Bloomington, IN, United States)	5/8/2019	
• Center for Complex Networks and Systems Research, Indiana University Bloomington (Bloomington, IN, United States)	5/7/2019	
• Northwestern Institute on Complex Systems (NICO), Northwestern University (Evanston, IL, United States)	5/3/2019	
 Department of Physics Education, Chosun University (Gwangju, South Korea) 	4/3/2019	
\bullet Department of Electrical Engineering, Postech (Pohang, South Korea) $5/4/2018$		
• Center of Bio and Basic Science R&D Coordination, KISTEP (Seoul, South Korea)	2/19/2018	
• Department of Physics, University of Seoul (Seoul, South Korea)	2/20/2018	

 Statistical Physics Lab, Department of Physics, Inha University (Incheon, South Korea)

SERVICE

Academic Reviewer

- PC member: Conference on Complex Systems 2019
- Journals: Scientific Reports; The European Physical Journal B (EPJB); Journal of the Korean Physical Society (JKPS)' New Physics: Sae Mulli.

12/01/2017

Conferences: The 9th International AAAI Conference on Web And Social Media (ICWSM-15); The 10th International AAAI Conference on Web And Social Media (ICWSM-15).

RESEARCH TECHNIQUES Languages: C, C++, Python, CUDA, MATLAB, etc.

Machine Learning: Keras, Tensorflow, Scikit-learn, Gensim, etc. Data visualization: Gephi, Cytoscape, Maplotlib, Gnuplot, etc. Tools: Network X, Pandas, Dask, OpenMP, numpy, scipy, etc.

Cluster Operations: Served as a system administrator for 8 years

- 1) 400 cores network cluster
- 2) 192 cores workstation
- 3) 128GB/256GB large-memory workstations

General: Agent-based modeling, Monte Carlo simulation, Statistical methods, Information theory, Game theory.

Human Languages: Korean (Native), English (Advanced), Frencn (Intermediate), Japanese (Basic)

In the Press

Research highlighs

- Early onset of structural inequality in the formation of collaborative knowledge in all Wikimedia projects
 - The Korea Bizwire: Study Shows a Monopolizing Few Can Control Collective Intelligence
 - NRC Handelsblad: Op Wikimedia is niet iedereen gelijk (in Dutch)
 - 한겨레: 집단지성의 성채 위키백과, 지식정보의 편향 넘을 수 있을까 (in Korean)
 - 과학동아: 숙제할 때 찾는 위키백과 서로 못 믿어서 내용이 정확해졌다? (in Korean)
 - 중앙일보: 인터넷, 정보 평등 세상 같지만, 실상은 소수가 여론 쉽게 독점 (in Korean)
 - 중앙일보: 인터넷 여론, 소수가 쉽게 독점 (in Korean)
 - 경향신문: 온라인 집단지성, 다수 아닌 소수가 독점 (in Korean)
 - 연합뉴스: 정보 틀어쥔 소수가 가짜뉴스를 집단지성으로 눈속임한다 (in Korean)
 - 동아사이언스: 인터넷 공간 알고 보니 소수가 독점한 세상 (in Korean)
 - 조선비즈: 인터넷서 집단지성 축적될수록 여론조작 쉬워져 (in Korean)
 - 디지털타임스: 가짜뉴스는 왜 증폭될까…소수에 의한 독점 현상 규명 (in Korean)
 - 금강일보: [사이언스톡톡] 왜 가짜뉴스가 판칠까 (in Korean)
 - 아시아경제: 인터넷 집단지성, 빅데이터로 보니 소수 독점 우려 (in Korean)
 - 서울경제: 집단지성 형성과정의 비밀, 빅데이터로 풀어내다 (in Korean)

- 한국경제: 정보 틀어쥔 소수가 가짜뉴스를 집단지성으로 눈속임한다 (in Korean)
- 파이낸셜뉴스: 가짜뉴스+여론조작 빅 마우스 찾아냈다 (in Korean)
- 헬로디디: 집단지성 형성 비밀?…빅데이터로 풀다 (in Korean)
- 내외뉴스통신: KISTI, 빅데이터로 집단지성 형성과정의 비밀 풀어 (in Korean)
- e경제뉴스: 인터넷여론...집단지성인가 바보들의 행진인가 (in Korean)
- 뉴스웍스: 온라인 여론 소수가 쉽게 독점한다 (in Korean)
- UPI뉴스: 정보 가진 소수가 여론 독점하고 왜곡 (in Korean)
- 이웃집과학자: 위키백과 집단지성보다 소수독점 경향↑ (in Korean)
- IT NEWS: 정보 가진 소수가 여론 독점하고 왜곡 (in Korean)
- Intellectual interchanges in the history of the massive online open-editing encyclopedia, Wikipedia
 - APS Physics Focus: Wikipedia Articles Separate into Four Categories
 - The Washington Post: Wikipedia's social structures resemble a bureaucratic corporation, studies say
 - The Speaker: Wikipedia Vulnerabilities Explored In New Research
 - Asian Scientist: What The Editing History Of Wikipedia Reveals
 - Gizmodo: Wikipedia Is Basically a Corporate Bureaucracy, According to a New Study
 - Science Alert: Wikipedia is basically just another giant bureaucracy, study finds
 - Fudzilla: Wikipedia has become 20th century bureaucracy
 - Weekendavisen: Leksikalt kartel (in Danish)
 - Die Tageszeitung: Der aussterbende mnnliche Schwarm (in German)
 - Der Standard.: Wikipedia: Es droht das Ende der Schwarmintelligenz (in German)
 - Actualite Houssenia Writing: Wikipedia, juste une norme bureaucratie ? (in French)
 - Boa Informacao: Como a Wikipdia se tornou uma comunidade mais fechada, e como resolver isto (in Portuguese)
 - ギズモドジャパン (Gizmodo Japan): ウィキペディアは少のスパエディタ が支配する官僚社 (in Japanese)
 - SG: Szomor jv vrhat a Wikipdira (in Hungarian)
 - Hankyoreh ScienceOn (한겨레 사이언스온): 위키백과 15년 문서 편집의 빅데이터 분석해보니… (in Korean)
 - Physics and High Technology (물리학과 첨단기술): 위키백과의 장기간 편집 기록 분석을 통한 위키백과 문서의 분류와 집단지성의 형성과정 (in Korean)
- Anatomy of Scientific Evolution
 - Physics Today: The Dayside: The psychohistory of scientific evolution