



DEPARTMENT OF SOCIOLOGY, KOREA UNIVERSITY

145 Anam-ro, Anam-dong, Seongbuk-gu, Seoul, South Korea

✉ eunshin@korea.ac.kr | 🌐 www.eunkyongshin.com

Academic Position

Korea University, Department of Sociology

Seoul, Korea

DEPARTMENT CHAIR, ASSOCIATE PROFESSOR

2023 - Present

• **Assistant Professor 2019-2023**

- Social Network Analysis, Medical Sociology, Social Determinants of Health, Social Neuroscience, Digital Humanities, Computational Sociology, Machine Learning

School of Medicine, University of Tennessee Health Science Center

TN, USA

POSTDOCTORAL FELLOW

2016-2019

- Machine Learning and Artificial Intelligence, Social Epidemiology, Biomedical Informatics

Columbia Law School

NY, USA

POSTDOCTORAL RESEARCH SCHOLAR IN THE FACULTY OF LAW

2015-2016

- Social Network Survey and Network Intervention Design

Education

Columbia University

NY, USA

PHD IN SOCIOLOGY

2015

- The Morphology of Resistance: Korean Resistance Networks 1895-1945 (Advisor: Peter Bearman)

Korea University

Seoul, Korea

M.A. IN SOCIOLOGY

2007

- 2006, Visiting, University of Queensland, Australia, Dean's Commendation

Korea University

Seoul, Korea

B.A. IN SOCIOLOGY

2001-2004

- Magna Cum Laude, Early & Honored

Publication

PEER REVIEWED

1. Kang, E., Yun, B., Cha, J. and Suk, H.I., **Shin EK**, "Neurodevelopmental Imprints of Sociomarkers in Adolescent Brain Connectomes", *Scientific Reports* (IF=3.8), 2024.
2. Kim, K.J., Park, S.J., Yun, S.G., Kim, S.W., Nam, M.H., **Shin EK**, Chang, E.A., Park, D.W., Lee, C.K., Yoon, Y.K. and Cho, Y., "Comparison of Neutralizing Activity between Vaccinated and Unvaccinated Hospitalized COVID-19 Patients Infected with Delta, Omicron BA. 1, or Omicron BA. 2 Variant" *Microorganisms* (IF=4.5), 12(3), p.509, 2024.
3. Kim, E. **Shin EK**, "Double-edged Network Effects on Disclosing Traumatic Experiences among Korean Comfort Women", *Journal of Interpersonal Violence* (IF=6.14), 2023.

4. Jo, W., Jang S., **Shin EK**, “Stage distinctive communication networks of the online breast cancer community”, Scientific Reports (IF=4.99), 2023.
5. **Shin EK**, “The Morphology of Resistance: Korean Resistance Networks 1895-1945”, Journal of Social Sciences, 61(2), 2022.
6. Choi H., I. Graetz, A. Shaban-Nejad, L. Schwartzberg, G. Vidal, R. Davis, **Shin EK**, “Social Disparities of Pain and Pain Intensity among Women Diagnosed with Early Stage Breast Cancer”, Frontiers in Oncology (IF= 6.244), 2022.
7. Park, D., S. Y. Lee, E. Jeong, D. Hong, M. Kim, J. H. Choi, **Shin EK**, K. J. Son, H. S. Kim, “The Effects of Socioeconomic and Geographic Factors on Chronic Phase Long-Term Survival after Stroke in South Korea,” Scientific Reports (IF=4.379), 2022.
8. **Shin EK**, H. Choi, N. Hayes. “The anatomy of COVID-19 comorbidity networks among hospitalized Korean patients,” Epidemiology and Health (IF=3.282), 2021.
9. Akbilgic, O **Shin EK**, A. Shaban-Nejad. “A Data Science Approach to Analyze the Association of Socioeconomic and Environmental Conditions with Disparities in Pediatric Surgery,” Frontiers in Pediatrics (IF= 3.418), 2021.
10. **Shin EK**, Kwon Y, Shaban-Nejad A, “Geo-Clustered Chronic Affinity: Pathways from Socio-economic Disadvantages to Health Disparities,” JAMIA Open (IF=2.52), 2019.
11. Brenas JH, **Shin EK**, Shaban-Nejad A, “Adverse Childhood Experiences Ontology for Mental Health Surveillance, Research, and Evaluation: Advanced Knowledge Representation and Semantic Web Techniques,” JMIR Ment Health (IF=4.39), 2019.
Honorable Mention in Best paper selection for the IMIA Yearbook of Medical Informatics 2020
12. **Shin EK**, LeWinn K, Bush N, Tylavsky F, Davis R, Shaban-Nejad A, “Association of Maternal Social Relationships with Cognitive Development in Early Childhood,” JAMA Network (IF=8.483), 2019.
Marvin Zelen Memorial Symposium 3rd Prize, Future of Science Fund Scholarship in Digital Health 2019
13. **Shin EK**, Mahajan R, Akbilgic O, Shaban-Nejad A, “Sociomarkers and Biomarkers: Predictive Modeling in Identifying Pediatric Asthma Patients at Risk of Hospital Revisiting,” npj Digital Medicine (IF=15.357), 2018.
14. **Shin EK**, Shaban-Nejad, A, “Urban Decay and Pediatric Asthma Prevalence in Memphis, Tennessee: Urban Data Integration for Efficient Population Health Surveillance,” IEEE Access (IF=4.48), 2018.

PEER REVIEWED PROCEEDINGS

1. Haesol Kim, Eunjae Kim, Sou Hyun Jang, **Shin EK**. Semantic Landscape of Legal Lexicons: Unpacking Medical Decision Making Controversies, In Proceedings of Ninth International Congress on Information and Communication Technology: ICICT 2025, London.
2. Eunjae Kim, Kyu-man Han, **Shin EK**. Unraveling Social Network Factors in Predicting Depression with a Machine Learning Approach, In Proceedings of Ninth International Congress on Information and Communication Technology: ICICT 2025, London.
3. Melton CA, Bae J, Olusanya OA, Brenas JH, **Shin EK**, Shaban-Nejad A. Semantic network analysis of COVID-19 vaccine related text from reddit, In Multimodal AI in Healthcare, Springer, Cham, 2023.
4. Park, GS, Bae, JT, Lee, JH, Yun, BY, Lee BH, and **Shin EK**, Integrated Infodemic Surveillance System: The Case of COVID-19 in South Korea, Studies in Health Technology and Informatics, 281, 2021.
5. Lee, B., Jeong, H., **Shin EK**. “On-line (TweetNet) and Off-line (EpiNet): The Distinctive Structures of the Infectious,” Explainable AI in Healthcare and Medicine. Springer, Cham, 2020.
6. **Shin EK**, JH Lee. “Evidence-based Health Intelligence with Globally Localized Epidemic Knowledge Base: Merging Pathological Data, Socio-environmental Data and Intervention Knowledge Data,” Studies in Health

Technology and Informatics, 2020.

7. Brenas JH, **Shin EK**, Shaban-Nejad A, “A Hybrid Recommender System to Guide Assessment and Surveillance of Adverse Childhood Experiences,” *Studies in health technology and informatics*, 2019.
8. **Shin EK**, Shaban-Nejad A, “Applied Network Science for Relational Chronic Disease Surveillance,” *Studies in health technology and informatics*, 2019.
9. Brenas JH, **Shin EK**, Shaban-Nejad A, “An Ontological Framework to Improve Surveillance of Adverse Childhood Experiences (ACEs),” *Studies in health technology and informatics*, 2019, 258:31-5.
10. **Shin EK**, Shaban-Nejad A, “Geo-distinctive Comorbidity Networks of Pediatric Asthma,” *Studies in health technology and informatics*, 2018, 247:436-440.
11. Mahajan R, **Shin EK**, Shaban-Nejad A, Langham M, Martin M, Davis R, Akbilgic O, “Disparities in Population-Level Socio-economic Factors are Associated with Disparities in Preoperative Clinical Risk Factors in Children,” *Studies in health technology and informatics*, 2018.
12. Shaban-Nejad A, Okhmatovskaia A, **Shin EK**, Davis RL, Franklin BE, Buckeridge DL. “A Semantic Framework for Logical Cross-Validation, Evaluation and Impact Analyses of Population Health Interventions,” *Studies in health technology and informatics*, 2017.

BOOK CHAPTERS

1. **Shin EK**, “Networks in Humanities” (in Korean), In: Kim J. (ed) *Understanding Digital Humanities*. Korea University Press, 2024 (forthcoming).
2. **Shin EK**, “Social Division of Labour” (in Korean), in: *The Humanities Classics Seminar Series*, Korea University Press, 2024 (forthcoming).
3. **Shin EK**, “Fitting Paradox: Machine Learning Algorithms vs Statistical Modeling” in: Borch and Pardo-Guerra (ed) *Oxford Handbook of the Sociology of Machine Learning*, Oxford University Press, 2024.
4. Shaban-Nejad A, Rishi K, **Shin EK**, Akbilgic O, “Health Intelligence” in: Feng, DD. (ed) *Biomedical Information Technology 2nd Edition*, Academic Press, 2020.
5. **Shin EK**, Shaban-Nejad A, “Public Health Intelligence and the Internet: Current State of the Art,” In: Shaban-Nejad A, Brownstein J, Buckeridge D. (ed) *Public Health Intelligence and the Internet. Lecture Notes in Social Networks*. Springer, Cham. 2017.

Research Grants

2023	Erosion of Relationships (PI, 2023-2025) , Korea University	South Korea
2023	Foundation Research on Patient-Doctor Shared Decision Making (Co-Inv) , Ministry of Health and Welfare	South Korea
2022	Causal XAI-based Bio-Socio Complex Data Analysis Lab (Co-Inv, 2022-25) , Ministry of Science and ICT	South Korea
2022	COVID-19 Breakthrough infection risk analysis (Co-Inv) , SK Bioscience	South Korea
2021	Course Recommendation System based on Co-enrollment Network (PI) , Korea University	South Korea
2021	The impact of COVID-19 on social world in Korea (Co-Inv) , Policy Planning Committee	South Korea
2021	Diversity Anatomy of KU Curriculum Network (PI) , Korea University	South Korea
2021	Humanistic Imagination Meets AI for Reflective Data Science (PI) , Korea University	South Korea
2020	Social Determinants of Pain among Breast Cancer Patients (PI) , Korea University	South Korea
2019	Integrated Contagion Studies (Co-Inv) , National Research Foundation of Korea	South Korea
2019	Research Grant for Morphology of Resistance (PI) , Korea University	South Korea
2018	Research Grant (Co-Inv) for Social Component of Health , Children’s Foundation in Memphis	TN, USA

Honors & Awards

2023	Best Teaching Award (Seok-Top Award), Social Network Analysis , Korea University	<i>Seoul, Korea</i>
2023	Excellence in Teaching Award, Data Science & Sociology , Korea University	<i>Seoul, Korea</i>
2022	Best Teaching Award (Seok-Top Award), Social Network Analysis , Korea University	<i>Seoul, Korea</i>
2022	Excellence in Teaching Award, Data Science & Sociology , Korea University	<i>Seoul, Korea</i>
2022	Excellence in Teaching Award, Data Science & Artificial Intelligence , Korea University	<i>Seoul, Korea</i>
2021	Excellence in Teaching Award, Social Network Analysis , Korea University	<i>Seoul, Korea</i>
2021	Best Teaching Award (Seok-Top Award), Data Science & Sociology , Korea University	<i>Seoul, Korea</i>
2021	Excellence in Teaching Award, Data Science & Artificial Intelligence , Korea University	<i>Seoul, Korea</i>
2020	Best Teaching Award (Seok-Top Award), Social Network Analysis , Korea University	<i>Seoul, Korea</i>
2020	Excellence in Teaching Award, Data Science & Sociology , Korea University	<i>Seoul, Korea</i>
2019	Excellence in Teaching Award, Social Network Analysis , Korea University	<i>Seoul, Korea</i>
2019	Outstanding Postdoctoral Fellow Award , School of Medicine, UTHSC	<i>TN, USA</i>
2019	Marvin Zelen Memorial Symposium 3rd Prize , Dana-Farber Cancer Institute, Harvard Medical School	<i>MA, USA</i>
2014	Best Student Paper Award , Korean Sociologists in America Conference	<i>CA, USA</i>
2011	Best Student Paper Award , UK Social Network Analysis Annual Meeting	<i>London, UK</i>
2006	Dean's Commendation , University of Queensland	<i>QU, Australia</i>
2004	High Honor Award , Korea University	<i>Seoul, Korea</i>
2003	High Honor Award , Korea University	<i>Seoul, Korea</i>
2002	High Honor Award , Korea University	<i>Seoul, Korea</i>
2001	High Honor Award , Korea University	<i>Seoul, Korea</i>

Fellowships + Scholarships

2019	Future of Science Fund Scholarship: Digital Health , Keystone Symposia	<i>CO, USA</i>
2018	Travel Grant Fellowship , UTHSC	<i>TN, USA</i>
2017	Travel Grant Fellowship , SBP-BRiMS	<i>TN, USA</i>
2015	Summer Research Grant Fellowship , Columbia University	<i>NY, USA</i>
2014	Research Fellowship , INCITE, Columbia University	<i>NY, USA</i>
2014	KSA Student Award Scholarship , Korean Sociologists in America	<i>CA, USA</i>
2014	Sydney Spivack Memorial Travel Grant Fellowship , Columbia University	<i>NY, USA</i>
2013	Summer Teaching Fellowship , GSAS, Columbia University	<i>NY, USA</i>
2012	Sydney Spivack Memorial Travel Grant , Columbia University	<i>NY, USA</i>
2012	Matching Travel Grant Fellowship , Columbia University	<i>NY, USA</i>
2011	UKSNA Student Award Fellowship , UKSNA	<i>London, UK</i>
2011	Summer Travel Grant Fellowship , ISERP, Columbia University	<i>NY, USA</i>
2011	Sydney Spivack Memorial Travel Grant Fellowship , Columbia University	<i>NY, USA</i>
2008	Summer Research Grant Fellowship 2008-2012 , Columbia University	<i>NY, USA</i>
2008	Matching Travel Grant Fellowship , Columbia University	<i>NY, USA</i>
2008	Matching Travel Grant Fellowship , Columbia University	<i>NY, USA</i>
2007	Paul Lazarsfeld Fellowship 2007-2014 , GSAS, Columbia University	<i>NY, USA</i>
2007	International Conference Travel Grant , Korea University	<i>Seoul, Korea</i>
2006	International Conference Travel Grant , Korea University	<i>Seoul, Korea</i>
2005	Student Scholarship 2005-2006 , Korea University	<i>Seoul, Korea</i>
2003	Student Scholarship 2003-2004 , Korea University	<i>Seoul, Korea</i>

Other Professional Services

2024	Advisory Committee Member , Institute for Sustainability, Korea University	<i>Seoul, Korea</i>
2024	Editorial Board Member , Korean Journal of Sociology	<i>Seoul, Korea</i>
2023	Advisory Committee Member 2023-2024 , Seoul Digital Foundation	<i>Seoul, Korea</i>
2022	Deputy Director 2022-2024 , Center For Digital Humanities	<i>Korea University</i>
2021	Deputy Director 2021-2023 , Korean Society Research Center	<i>Korea University</i>
2021	Editor in chief 2021-2023 , Korean Society	<i>Korea University</i>
2022	Scientific Program Committee 2017-2024 , AAAI Workshop on Health Intelligence	<i>USA</i>
2020	Steering Committee Member 2020-2024 , Data Science Institute	<i>Korea University</i>
2020	Committee Member , Institute for information and data convergence, College of Medicine	<i>Korea University</i>
2020	Organizing Committee Member , SASE, Diffusion of the Innovations on the New Algorithmic Contour	<i>Virtual Conference</i>
2020	Program Committee Member , Social Computing, Behavioral-Cultural Modeling and Prediction -BRiMS	<i>DC, USA</i>
2017	Data Committee 2017-2018 , Memphis Blight Elimination Steering Team	<i>TN, USA</i>
2005	Editorial Assistant 2005-2006 , Korean Journal of Sociology	<i>Seoul, Korea</i>
2004	Foreign Affairs Committee Internship , House of Representative	<i>DC, USA</i>

Students

2025	Haesol Kim , PhD Candidate at Stanford University, Sociology (Fall 2025)	<i>BA+MA, KU</i>
2025	Jeongbeen Lim , Data Scientist	<i>MA, KU</i>
2024	Soomin Song , PhD Candidate at University of Massachusetts Amherst, Communication Studies (On leave)	<i>MA, KU</i>
2023	Jintae Bae , PhD Student at NYU, Sociology	<i>MA, KU</i>
2022	Byungyeon Yun , PhD Candidate at University of Minnesota, Ed Psych	<i>MA, KU</i>