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Academic Position

Korea University

ASSISTANT PROFESSOR

- Social Network Analysis, Data Science, Machine Learning and AI, Health Intelligence

Seoul, Korea

2019 - Present

School of Medicine, University of Tennessee Health Science Center

POSTDOCTORAL FELLOW

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

TN, USA

2016-2019

Columbia Law School

POSTDOCTORAL RESEARCH SCHOLAR IN THE FACULTY OF LAW

- Network Survey and Network Intervention Design

NY, USA

2015-2016

Education

Columbia University

PHD IN SOCIOLOGY

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

NY, USA

2015

Korea University

M.A. IN SOCIOLOGY

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

Seoul, Korea

2007

Korea University

B.A. IN SOCIOLOGY

- Magna Cum Laude, Early & Honored

Seoul, Korea

2001-2004

Publication

PEER REVIEWED

1. Kim, E. **Shin EK**, "Double-edged Network Effects on Disclosing Traumatic Experiences among Korean "Comfort Women" ," Journal of Interpersonal Violence (IF=6.14), 2023 (Forthcoming).
2. **Shin EK**, "The Morphology of Resistance: Korean Resistance Networks 1895-1945," Journal of Social Sciences, 61(2), 2022.
3. 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.

4. 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.
5. **Shin EK**, H. Choi, N. Hayes. "The anatomy of COVID-19 comorbidity networks among hospitalized Korean patients," *Epidemiology and Health* (IF=3.282), 2021.
6. 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.
7. **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, ooz029.
8. 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;6(5):e13498.
Honorable Mention in Best paper selection for the IMIA Yearbook of Medical Informatics 2020
9. **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, 2(1). 1-9.
10. **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, 1(50). 1-5.
11. **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, 6:46281-46289.

PEER REVIEWED PROCEEDINGS

1. 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* (pp. 257-266). Springer, Cham, 2023.
2. 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, pp.1036-1040, 2021.
3. 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, 187-194.
4. **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, 272:17-20.
5. 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, 262:332-335.
6. **Shin EK**, Shaban-Nejad A, "Applied Network Science for Relational Chronic Disease Surveillance," *Studies in health technology and informatics*, 2019, 262: 336-339.
7. 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.
8. **Shin EK**, Shaban-Nejad A, "Geo-distinctive Comorbidity Networks of Pediatric Asthma," *Studies in health technology and informatics*, 2018, 247:436-440.
9. 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, 255:80-84.

- 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, 235:481-485.

BOOK CHAPTERS

- Shin EK**, "Overfitting Paradox" in: Borch and Pardo-Guerra (ed) *Oxford Handbook of the Sociology of Machine Learning*, Oxford University Press, 2023 (Forthcoming).
- Shaban-Nejad A, Rishi K, **Shin EK**, Akbilgic O, "Health Intelligence" in: Feng, DD. (ed) *Biomedical Information Technology 2nd Edition*, Academic Press, 2020.
- 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. 1-17.

Research Grants

2022	Causal XAI-based Bio-Socio Complex Data Analysis Lab (Co-Inv) , 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

Fellowships + Scholarships

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

Honors & Awards

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>
2022	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>

Other Professional Services

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 2017-2022 , 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>