



DEPARTMENT OF SOCIOLOGY, KOREA UNIVERSITY

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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. 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.
2. **Shin EK**, Jong Hun 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.

3. **Shin EK**, Kwon Y, Shaban-Nejad A, “Geo-Clustered Chronic Affinity: Pathways from Socio-economic Disadvantages to Health Disparities,” *JAMIA Open*, 2019, ooz029.
4. **Shin EK**, Shaban-Nejad A, “Applied Network Science for Relational Chronic Disease Surveillance,” *Studies in health technology and informatics*, 2019, 262: 336-339.
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. 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*, 2019;6(5):e13498.
Honorable Mention in Best paper selection for the IMIA Yearbook of Medical Informatics 2020
7. **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*, 2019, 2(1). 1-9.
8. 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.
9. **Shin EK**, Mahajan R, Akbilgic O, Shaban-Nejad A, “Sociomarkers and Biomarkers: Predictive Modeling in Identifying Pediatric Asthma Patients at Risk of Hospital Revisiting,” *Nature Digital Medicine*, 2018, 1(50). 1-5.
10. **Shin EK**, Shaban-Nejad, A, “Urban Decay and Pediatric Asthma Prevalence in Memphis, Tennessee: Urban Data Integration for Efficient Population Health Surveillance,” *IEEE Access*, 2018, 6:46281-46289.
11. **Shin EK**, Shaban-Nejad A, “Geo-distinctive Comorbidity Networks of Pediatric Asthma,” *Studies in health technology and informatics*, 2018, 247:436-440.
12. 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.
13. 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

1. Shaban-Nejad A, Rishi K, **Shin EK**, Akbilgic O, ”Health Intelligence” in: Feng, DD. (ed) *Biomedical Information Technology 2nd Edition*, Academic Press, 2020.
2. **Shin EK**, Shaban-Nejad A, “Public Health Intelligence and the Internet: Current State of the Art,” In: Shaban-Nejad A, Brownstein J, Buckeridge D. (eds) *Public Health Intelligence and the Internet. Lecture Notes in Social Networks*. Springer, Cham. 2017. 1-17.

Research Grants

2020	Social Determinants of Pain among Breast Cancer Patients (PI) , Korea University	South Korea
2019	Integrated Contagion Studies (Co-Investigator) , National Research Foundation of Korea	South Korea
2019	Research Grant for Morphology of Resistance (PI) , Korea University	South Korea
2018	Research Grant (Co-Investigator) 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

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

Experties

Data Science, Social Network Analysis, Health Intelligence, Social Epidemiology, Digital Health, Health Disparity, Cognitive Development, Urban Informatics, Computational Sociology

Other Professional Services

2020	Founding Committee Member , Institute for information and data convergence, College of Medicine	Korea University
2020	Steering Committee Member , Data Science Institute	Korea University
2020	Organizing Committee Member , SASE, Diffusion of the Innovations on the New Algorithmic Contour	Virtual Conference
2020	Program Committee Member , SBP-BRiMS 2020	DC, USA
2017	Scientific Program Committee 2017-2021 , AAAI Workshop on Health Intelligence	USA
2017	Data Committee 2017-2018 , Memphis Blight Elimination Steering Team	TN, USA
2005	Editorial Assistant 2005-2006 , Korean Journal of Sociology	Seoul, Korea
2004	Foreign Affairs Committee Internship , House of Representative	DC, USA