



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," Studies in Computational Intelligence, 2020 (forthcoming).
2. **Shin EK**, Kwon Y, Shaban-Nejad A, "Geo-Clustered Chronic Affinity: Pathways from Socio-economic Disadvantages to Health Disparities," JAMIA Open, 2019, ooz029.
3. **Shin EK**, Shaban-Nejad A, "Applied Network Science for Relational Chronic Disease Surveillance," Studies in health technology and informatics, 2019, 262: 336-339.
4. 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.
5. 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.
6. **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.

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**, 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.
9. **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.
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, 255:80-84.
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, 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.

Grants + Fellowships + Scholarships

2019	Future of Science Fund Scholarship: Digital Health , Keystone Symposia	CO, USA
2018	Research Grant (Co-Investigator) for Social Component of Health , Children’s Foundation	TN, USA
2018	Travel Grant , UTHSC	TN, USA
2017	Travel Grant , SBP-BRiMS	TN, USA
2015	Summer Research Grant , 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 , Columbia University	NY, USA
2013	Summer Teaching Fellowship , GSAS, Columbia University	NY, USA
2012	Summer Research Grant , Columbia University	NY, USA
2012	Sydney Spivack Memorial Travel Grant , Columbia University	NY, USA
2012	Matching Travel Grant , Columbia University	NY, USA
2011	UKSNA Student Award Fellowship , UKSNA	London, UK
2011	Summer Travel Grant , ISERP, Columbia University	NY, USA
2011	Sydney Spivack Memorial Travel Grant , Columbia University	NY, USA
2011	Summer Research Grant , Columbia University	NY, USA
2010	Summer Research Grant , Columbia University	NY, USA
2009	Summer Research Grant , Columbia University	NY, USA
2008	Summer Research Grant , Columbia University	NY, USA
2008	Matching Travel Grant , Columbia University	NY, USA
2008	Matching Travel Grant , 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

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>

Experties

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

Other Professional Experiences

2017	Scientific Program Committee 2017-2020 , AAAi Workshop on Health Intelligence	<i>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>