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## Academic Position

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### 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

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### 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

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### PEER REVIEWED

1. **Shin EK**, HY Choi, N. Hayes. "The anatomy of COVID-19 comorbidity networks among hospitalized Korean patients," *Epidemiology and Health*, 2021.
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. 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*, 2021.

4. 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.
5. **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.
6. **Shin EK**, Kwon Y, Shaban-Nejad A, “Geo-Clustered Chronic Affinity: Pathways from Socio-economic Disadvantages to Health Disparities,” *JAMIA Open*, 2019, ooz029.
7. **Shin EK**, Shaban-Nejad A, “Applied Network Science for Relational Chronic Disease Surveillance,” *Studies in health technology and informatics*, 2019, 262: 336-339.
8. 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.
9. 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**
10. **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.
11. 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.
12. **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.
13. **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.
14. **Shin EK**, Shaban-Nejad A, “Geo-distinctive Comorbidity Networks of Pediatric Asthma,” *Studies in health technology and informatics*, 2018, 247:436-440.
15. 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.
16. 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 2<sup>nd</sup> 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

2021	<b>Diversity Anatomy of KU Curriculum Network (PI)</b> , Korea University	South Korea
2021	<b>Humanistic Imagination Meets AI for Reflective Data Science (PI)</b> , Korea University	South Korea
2020	<b>Social Determinants of Pain among Breast Cancer Patients (PI)</b> , Korea University	South Korea
2019	<b>Integrated Contagion Studies (Co-Investigator)</b> , National Research Foundation of Korea	South Korea
2019	<b>Research Grant for Morphology of Resistance (PI)</b> , Korea University	South Korea
2018	<b>Research Grant (Co-Investigator) for Social Component of Health</b> , Children’s Foundation in Memphis	TN, USA

## Fellowships + Scholarships

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

## Honors & Awards

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

## Experties

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

## Other Professional Services

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