



Eun Kyong SHIN

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ACADEMIC POSITION

- Assistant Professor** 2019-
Department of Sociology, Korea University
- Social Network Analysis, Machine Learning and Artificial Intelligence, Data Science
- Postdoctoral Fellow** 2016-2019
School of Medicine, University of Tennessee Health Science Center
- Machine Learning and Artificial Intelligence, Social Epidemiology, Biomedical Informatics
- Postdoctoral Research Scholar in the Faculty of Law** 2015-2016
Columbia Law School
- Network Survey and Network Intervention Design

EDUCATION

- Ph.D. Sociology** 2015
Columbia University
The Morphology of Resistance: Korean Resistance Networks 1895-1945, Advisor: Peter Bearman
- M.Phil. Sociology** 2010
Columbia University
- M.A. Sociology** 2007
Korea University
2006, Visiting, University of Queensland, Australia, Dean's Commendation
- B.A. Sociology** 2004
Korea University, Magna Cum Laude, Early & Honored

PUBLICATIONS

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

5. **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.
6. 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.
7. **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.
8. **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.
9. **Shin EK**, Shaban-Nejad A, “Geo-distinctive Comorbidity Networks of Pediatric Asthma,” Studies in health technology and informatics, 2018, 247:436-440.
10. 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.
11. 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” Book Chapter 6 in: Feng, DD. (ed) *Biomedical Information Technology 2nd Edition*, Academic Press (Forthcoming)
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.

AWARDS

- 2019 Outstanding Postdoctoral Fellow Award
School of Medicine, University of Tennessee Health Science Center, USA
- 2019 Marvin Zelen Memorial Symposium 3rd Prize, Data Science in Biomedical Research
Dana-Farber Cancer Institute, Harvard Medical School, USA
- 2014 Best Student Paper Award, Korean Sociologists in America Conference, USA
- 2011 Best Student Paper Award, UK Social Network Analysis Annual Meeting, UK
- 2006 Dean's Commendation, University of Queensland, Australia
- 2004 Spring High Honor Award, Korea University, Korea
- 2003 Spring & Fall High Honor Award, Korea University, Korea
- 2002 Spring & Fall High Honor Award, Korea University, Korea
- 2001 Spring & Fall High Honor Award, Korea University, Korea

GRANTS + FELLOWSHIPS + SCHOLARSHIPS

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|-----------|--|--|
| 2019 | Future of Science Fund Scholarship
<i>Digital Health: From Science to Application</i> | Keystone Symposia |
| 2018 | Research Grant (Co-Investigator)
<i>Social Component of Health</i> | Children's Foundation
Research Institute of Memphis |
| 2018 | Travel Grant | UTHSC |
| 2017 | Travel Grant | SBP-BRiMS |
| 2015 | Summer Research Grant | Columbia University |
| 2014-2015 | Research Fellowship | INCITE, Columbia University |
| 2014 | KSA Student Award Scholarship | AKSA |
| 2014 | Sydney Spivack Memorial Travel Grant | Columbia University |
| 2013 | Summer Teaching Fellowship | GSAS, Columbia University |
| 2012 | Sydney Spivack Memorial Travel Grant | Columbia University |
| 2012 | Matching Travel Grant | GSAS, Columbia University |
| 2011 | UKSNA Student Award Fellowship | UKSNA |
| 2011 | Summer Travel Grant | ISERP, Columbia University |
| 2011 | Sydney Spivack Memorial Travel Grant | Columbia University |
| 2008-2012 | Summer Research Fellowship | GSAS, Columbia University |
| 2008 | Matching Travel Grant | GSAS, Columbia University |
| 2007-2014 | Lazarsfeld Fellowship | GSAS, Columbia University |
| 2007 | International Conference Travel Grant | Korea University |
| 2006 | Conference Travel Grant | Korea University |
| 2005-2006 | Student Scholarship | Korea University |
| 2003-2004 | High Honor Scholarship | Korea University |

INVITED TALKS

- 2018 Sociology in the rise of Big Data: Analytics through Networks and Neighborhoods
Department of Sociology, Korea University
- 2018 Public Health Intelligence and the Internet
Transdisciplinary Inquiry of the Integrated Contagion, Korea University
- 2018 Neighborhoods and Networks: Social Epidemiology in a New Light
Department of Sociology, Yonsei University
- 2018 Public Health and Social Epidemiology: New Evidence from Big Data
Department of Public Administration, Yonsei University
- 2018 Population Health and Social Epidemiology: When Health Data Meet Geography
Department of Earth Sciences, University of Memphis
- 2016 Network Interventions for Social Change: Risk Distributions in Covert Networks
University of Tennessee Health Science Center, Center for Biomedical Informatics
- 2016 The Morphology of Resistance: Korean Resistance Networks 1895-1945
Division of Social Science, Hong Kong University of Science and Technology

TEACHING EXPERIENCES

1. **Data Science**
 - * Instructor, Big Data and Social Science, Korea University (Full-day Workshop, 2018)
2. **Research Methods and Statistics**
 - * Teaching Assistant, Statistics for Social Research, Columbia University (2008 Fall)
 - * Teaching Assistant, Advanced Quantitative Statistics, Columbia University (2014 Spring)
 - * Teaching Assistant, Social Network Analysis, Korea University (2007 Spring)
3. **Introduction to Sociology**
 - * Instructor, Columbia University (2013 Summer)
 - * Teaching Assistant, Columbia University (2009 Spring - 2010 Spring; 2012 Fall; 2014 Fall)
4. **Social Theory**
 - * Teaching Assistant, Barnard College (2013 Spring; 2014 Spring; 2015 Spring)

OTHER PROFESSIONAL EXPERIENCES

1. **Internship**
 - * House of Representative, DC, USA (International Affairs, 2004 Summer)
2. **Editorial Assistant**
 - * Korean Journal of Sociology, Korea (Jan 2005 - Dec 2006)
3. **Scientific Program Committee**
 - * International Workshop on Population and Personalized Health Intelligence (2017-2019)
 - * Memphis Blight Elimination Steering Team Data Committee (2017-2018)