



Eun Kyong SHIN

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ACADEMIC POSITION

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**, Shaban-Nejad A, "Applied Network Science for Relational Chronic Disease Surveillance," *Studies in health technology and informatics*, 2019 (Forthcoming)
2. 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 (Forthcoming)
3. 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
4. **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.

5. 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.
6. **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.
7. **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.
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.
10. 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

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)

ANALYTICAL SKILLS

Social Network Analysis (R, GEPHI, UCINET, NETMINER); Quantitative Analysis and Machine Learning (R, STATA, MATLAB); Geographic Information Analysis (R, TABLEAU)

REFERENCES

- Peter S. Bearman
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