

BYUNGKYU LEE

Curriculum Vitae

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Department of Sociology
Indiana University
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ACADEMIC POSITIONS

2019– Assistant Professor of Sociology, Indiana University.
2018–19 Visiting Assistant Professor, Network Science Institute, Indiana University.

EDUCATION

2014–18 Ph.D., Sociology, Columbia University (WITH BEST DISSERTATION AWARD)
2012–14 M.A., Sociology, Columbia University
2009–12 M.A., Sociology, Yonsei University (WITH GRADUATE THESIS AWARD)
2002–09 B.A., Business Administration, Yonsei University

FIELDS OF INTEREST

Social Networks, Health, Political Sociology, Social Genomics, Agent-Based Modeling, Computational Social Science, Causal Inference.

PUBLICATIONS

Peer-Reviewed Articles (†: equal contribution)

- forth.* Lee, Byungkyu. “Close Relationships in Close Elections.” *Social Forces*.
- 2021 Lee, Byungkyu, Wanying Zhao, Kai-Cheng Yang, Yong-Yeol Ahn, and Brea L. Perry. “Systematic Evaluation of State Policy Interventions Targeting the US Opioid Epidemic, 2007-2018.” *JAMA Network Open*. 4(2):e2036687
- 2021 Youm, Yoosik, Byungkyu Lee and Junsol Kim. “A measure of centrality in cyclic diffusion processes: walk-betweenness.” *PLOS ONE* 16(1): e0245476.

- 2021 Gupta, Sumedha, Coady Wing, Thuy Nguyen, Ana Bento, Felipe Lozano Rojas, Byungkyu Lee, Shyam Raman, and Kosali I. Simon. "Tracking Public and Private Response to the COVID-19 Epidemic: Evidence from State and Local Government Actions." *American Journal of Health Economics*. (NBER Working Paper No.27027)
- 2020 Lee, Dohoon† and Byungkyu Lee†. "The Role of Multilayered Peer Groups in Adolescent Depression: A Distributional Approach." *American Journal of Sociology* 125(6): 1513-1558.
- 2020 Pescosolido, Bernice, Byungkyu Lee, and Karen Kafadar. "Cross-level Sociodemographic Homogeneity Alters Individual Risk For Completed Suicide." *Proceedings of the National Academy of Sciences*, 117(42): 26170-26175.
- 2020 Lee, Byungkyu and Peter Bearman. "Political Isolation in America." *Network Science* 8(3): 333-355.
- 2017 Lee, Byungkyu and Peter Bearman. "Important Matters in Political Context." *Sociological Science* 4:1-30.
- 2016 Lee, Byungkyu and Dalton Conley. "Does the Gender of Offspring Affect Parental Political Orientation?" *Social Forces* 94(3):1103-1127. (NBER Working Paper No.20384)
- Lee, Byungkyu and Dalton Conley. "Robust Null Findings on Offspring Sex and Political Orientation." *Social Forces* 95(2):899-908.
- This article was featured in *The Washington Post* and *The Atlantic*.
- 2016 Youm, Yoosik and Byungkyu Lee. "A Network Approach to Economic Models of Fertility." *Rationality and Society* 28(4):386-409.
- 2011 Lee, Byungkyu and Yoosik Youm. "Social Network Effects on Post-Traumatic Stress Disorder (PTSD) in Female North Korean Immigrants." *Journal of Preventive Medicine and Public Health* 44(5):191-198.

Peer-Reviewed Articles (in Korean)

- 2012 Lee, Byungkyu and Yoosik Youm. "A Study on the Increase and Decrease of Occupying Bridging Position Based on the Sponsorship Network in the 17th Korean National Assembly." *Korean Journal of Sociology* 46(4):137-175.
- 2012 Cho, Jinman, Jeonghan Kang, and Byungkyu Lee. "Effects of Family Structure and Friendship Network on Korean Adolescents' Life Satisfaction." *Social Science Review*

43(1): 47-71.

EXCELLENCE PAPER AWARD, *The 2nd National Conference for Sociology Graduate Students*, Korean Sociological Association

- 2010 Jeon, Kiho, Byungkyu Lee, and Hun-joon Park. "Effects of Network Centrality on Cooperative Behavior: Mediating Role of Organizational Identification." *Korean Journal of Industrial and Organizational Psychology* 23(4): 635-666.
- 2009 Lee, Byungkyu and Yoosik Youm. "Identifying the Structure of Co-signing Networks among the 17th Korean Congressmen in the Standing Committee of Health and Welfare." *Journal of Contemporary Society and Culture* 29: 33-59.

WORKS IN PROGRESS

Under Review

- Lee, Byungkyu. "The Contextual Activation in Belief Networks." *American Journal of Sociology*, Revise and Resubmit.
- Perry, Brea, Meltem Odabaş, Kai-Cheng Yang, Patrick Kaminski, Byungkyu Lee, Brian Aronson, Yong-Yeol Ahn, Carrie Oser, Patricia Freeman, Jeffery Talbert. "New means, new measures: Assessing prescription drug seeking indicators over ten years of the opioid epidemic." *Addiction*, Revise and Resubmit.

Working Papers (available upon request)

- Lee, Byungkyu, and Bernice Pescosolido. "Unemployment and suicide in 21st century America."
- Lee, Byungkyu, Patrick Kaminski, Meltem Odabas, Yong-Yeol Ahn, Patricia Freeman, and Brea L. Perry, "Racial Disparities in Pain Management and Opioid Use Disorder Treatment in the Commercially Insured Population, 2007-2018."
- Lee, Byungkyu, Eun Kyong Shin, and Peter Bearman. "The Structure of Terrorist Networks."
- Lee, Byungkyu, Ramina Sotoudeh, and Dalton Conley. "Twin Trouble: Nature and Nurture in Adolescent Friendship Networks."
- Nguyen, Thuy and Byungkyu Lee. "Today's Lesson is Tomorrow's Practice: The Early Exposure to State Restrictive Marketing Policies in Medical School Discourages Physicians from Receiving Pharmaceutical Payments."

GRANTS

- UR PRINCIPAL INVESTIGATOR (with co-PIs Barum Park and Mark Hoffman), “Deliberation online: how online foci shape conversation in a polarized era”, National Science Foundation. Under Review.
- UR PRINCIPAL INVESTIGATOR, “Estimating the population prevalence and risk of suicide for the LGBTQ+ population in the United States”, American Foundation for Suicide Prevention, Young Investigator Innovation Grants. Under Review.
- UR CO-INVESTIGATOR (with PI YY Ahn), “Integrating neural language models and causal inference for understanding COVID-19’s impact on health”, National Science Foundation . Under Review.
- UR CO-INVESTIGATOR (with PI Hank Green), “Network-based Strategies to Improve MAT Availability and Access for Populations at High Risk for Opiate Use Disorder”, National Institutes of Health, R01. Under Review.
- UR CO-INVESTIGATOR (with PI Bernice Pescosolido), “National Longitudinal Assessment of Child and Adolescent Mental Health Stigma”, National Institutes of Health, R01. Under Review.
- 2020–21 PRINCIPAL INVESTIGATOR, “The Effects of Extreme Language and Binary Classification on Political Sectarianism: A Survey Experiment”, Social Science Research Commons, Indiana University.
- 2020–21 PRINCIPAL INVESTIGATOR (with Kangsan Lee), “National Study of American Social Life and Social Networks During the COVID-19 Pandemic”, The American Assembly, Columbia University.
- 2020–21 PRINCIPAL INVESTIGATOR (with Barum Park and Mark Hoffman), “Political Polarization, Political Deliberation, and Hate Speech on Facebook”, Office of the Vice Provost for Research, Indiana University Social Sciences Research Funding Program.
- 2016 PRINCIPAL INVESTIGATOR (with Peter Bearman), “Networks in Time: Testing Contextual Effects in the 2004 General Social Survey Network Items”, Time Sharing Experiment For the Social Sciences

AWARDS, FELLOWSHIPS, AND HONORS

- 2019 ROBERT K. MERTON BEST DISSERTATION AWARD, Department of Sociology, Columbia University
- 2015 NETWORK MODELING FOR EPIDEMICS FELLOWSHIP, University of Washington
- 2015 GENOECONOMICS SCHOLARSHIP, Tinbergen Institute, Netherlands
- 2012–17 PAUL F. LAZARSFELD FELLOWSHIP, Department of Sociology, Columbia University
- 2012 GRADUATE THESIS AWARD, Yonsei University
- 2011 GRADUATE STUDENT PAPER AWARD, *The 2nd National Conference for Sociology Graduate Students*, Korean Sociological Association

SELECTED PRESENTATIONS

Conference Presentations (ASA: American Sociological Association, PAA: Population Association of America, INSNA: International Network of Analytical Sociologists, INAS: International Network of Analytical Sociologists)

Lee, Byungkyu. “The Rise of Political Homophily in the Battleground States.” • ASA 2019 • Summer Conference on Economy and Society, 2017.

Makovi, Kinga and Byungkyu Lee. “The Diffusion of Microfinance Revisited: The Role of Modularity and Tie Multiplexity in Diffusion Processes on Networks.” • INAS 2018 • INSNA 2018

Lee, Dohoon and Byungkyu Lee. “The Tale Is in the Tail: The Role of Highly Depressed Peers in Adolescent Depression.” • INSNA 2018

Lee, Byungkyu and Dalton Conley. “Twin Trouble: Fragility of Heritability Estimates for Adolescent Friendship Networks.” • ASA 2017 • PAA 2017 • Integrating Genetics and Social Science conference, 2013

Lee, Byungkyu and Peter Bearman. “Important Matters in Political Context: The Role of Priming in Suppressing the Core Discussion Network Size.” • INAS 2016

Lee, Byungkyu, Eun Kyong Shin, and Peter Bearman. “Risk on the Margin: The Structure of Covert Social Network.” • INSNA 2016 • INAS 2015

Invited Talks

Lee, Byungkyu. “Making big data smaller: two strategies to analyze big data to study the opioid epidemic in the US.” • Workshop in Methods, Indiana University, IN, 2020.

Lee, Byungkyu. “When and How Politics Shapes our Core Beliefs and Networks (and why it matters)” • Social Research and Public Policy Seminar Series, New York University, Abu Dhabi, UAE, 2017.

TEACHING AND MENTORING

Courses Taught (†: graduate-level course)

Understanding Social Data. Fall 2019, Fall 2020

Causal Inference†. Fall 2019

Social Network Analysis†. Fall 2020

Master's Thesis Committee Member

2021 Patrick Kaminski

Qualifying Exam Committee Member

2020 Max Coleman
2020– Benjamin Hartmann

First-Year Faculty Mentor

2020 Zhaodi Chen

UNIVERSITY SERVICE

2021 Reviewer. Social Sciences Research Funding Program. Indiana University.

DEPARTMENT SERVICE

2020–21 Workshop and Colloquium Committee, Indiana University
2020–21 Graduate Fellowships Committee, Indiana University
2019–20 Schuessler Award Committee, Indiana University
2019–20 LIBRARY COORDINATOR, Indiana University
2016 MODERATOR. Sociology Senior Thesis Presentations, Columbia University.
2015–16 FACULTY ADVISOR. China High School Fellowship Program, *INCITE*, Columbia University.
2014–18 CO-ORGANIZER. Networks and Time Seminar Series, *INCITE*, Columbia University.

PROFESSIONAL SERVICE AND AFFILIATION

2018– RESEARCH AFFILIATE. *INCITE*, Columbia University.
2014–18 GRADUATE FELLOW. *INCITE*, Columbia University.
2014–18 GRADUATE FELLOW. *Center on Organizational Innovation*, Columbia University.
2009– MEMBER. American Sociological Association.
2016– MEMBER. International Network for Social Network Analysis.
2018–20 TREASURER. Association of Korean Sociologists in America.

2016– AD HOC REVIEWER. *American Journal of Sociology*, *American Sociological Review*, *Proceedings of the National Academy of Sciences*, *American Journal of Preventive Medicine*, *European Sociological Review*, *Journal of Experimental Political Science*, *Network Science*, *Research in Social Stratification and Mobility*, *Scientific Reports*,

Sex Roles, Social Forces, Social Networks, Social Psychology Quarterly, Sociological Methods and Research, Sociological Perspectives, Social Science Research, Socius.