

# BYUNGKYU LEE

*Curriculum Vitae*

January 2022

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Indiana University  
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## ACADEMIC POSITIONS

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

## EDUCATION

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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

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Social Networks, Health, Political Sociology, Computational Social Science, Causal Inference.

## PUBLICATIONS

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### Peer-Reviewed Articles (†: equal contribution)

- 2021    Lee, Byungkyu. “Close Relationships in Close Elections.” *Social Forces*. 100(1): 400-425.
- 2021    Lee, Byungkyu, Kai-Cheng Yang, Patrick Kaminski, Peng Siyun, Meltem Odabas, Gupta Sumedha, Hank Green, Yong-Yeol Ahn, and Brea Perry. “Substitution of Non-Pharmacologic Therapy with Opioid Prescribing for Pain During the COVID-19 Pandemic.” *JAMA Network Open*. 4(12):e2138453
- 2021    Yang, Kai-Cheng, Byungkyu Lee, Yong-Yeol Ahn, and Brea Perry, “Use of and Comorbidities Associated With Diagnostic Codes for COVID-19 in US Health Insurance Claims.”

- JAMA Network Open*. 4(9): e2124643
- 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 Perry, Brea, Meltem Odabaş, Kai-Cheng Yang, Byungkyu Lee, Patrick Kaminski, Brian Aronson, Yong-Yeol Ahn, Carrie Oser, Patricia Freeman, and Jeffery Talbert. “New Means, New Measures: Assessing Prescription Drug Seeking Indicators over Ten Years of the Opioid Epidemic.” *Addiction*. 117(1): 195-204.
- 2021 Gupta, Sumedha, Thuy Nguyen, Shyam Raman, Byungkyu Lee, Felipe Lozano Rojas, Ana Bento, Kosali I. Simon, and Coady Wing. “Tracking Public and Private Response to the COVID-19 Epidemic: Evidence from State and Local Government Actions.” *American Journal of Health Economics* 7(4): 361-404. (*NBER Working Paper No.27027*)
- 2021 Youm, Yoosik, Byungkyu Lee and Junsol Kim. “A measure of centrality in cyclic diffusion processes: walk-betweenness.” *PLOS ONE* 16(1): e0245476.
- 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.

This article was designated a 2020 Cozzarelli Prize Finalist (Class V) by the *Proceedings of the National Academy of Sciences Editorial Office*, awarded March 2021.

- 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.

- 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.

### Other publication

- 2021 Pescosolido A. Bernice and Byungkyu Lee. "COVID-19 and Sociology's Mental Health Moment." *ASA Footnotes* 49(2).

### 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

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#### Under Review

- Lee, Byungkyu. "The Contextual Activation in Belief Networks." *American Journal of Sociology*,  
Revise and Resubmit.

## Working Papers

- Lee, Byungkyu and James Chu. "COVID-19 Vaccination Rates Are Lowest among Political Outsiders in the United States."
- 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 Perry, "Racial Disparities in Pain Management and Opioid Use Disorder Treatment in the Commercially Insured Population, 2007-2019."
- Lee, Byungkyu, Kangsan Lee, Benjamin Hartmann, and Peter Bearman. "Social Networks in COVID-19 America."
- Lee, Byungkyu, Kangsan Lee, and Peter Bearman. "Othering in Us: COVID-19 Stigma, Social Distancing, and Social Networks."
- Lee, Byungkyu, Ramina Sotoudeh, and Dalton Conley. "Twin Trouble: Nature and Nurture in Adolescent Friendship Networks."
- Lee, Byungkyu, Eun Kyong Shin, and Peter Bearman. "The Structure of Terrorist Networks."

## GRANTS

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### External grants

- 2021–24 PRINCIPAL INVESTIGATOR (with co-PIs Barum Park and Mark Hoffman), "Collaborative research: How online foci shape conversation", National Science Foundation.
- 2021–22 PRINCIPAL INVESTIGATOR (with co-PI Brea Perry), "Impacts of universal cash transfer on health outcomes using mortality and claims data", #StartSmall, Cash Transfer Lab Small Grant, New York University.
- 2021–23 CO-INVESTIGATOR (with PI Peter Bearman), "Trust and Distrust", Facebook.
- 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.
- 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.

## Internal grants

- 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 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.

## AWARDS, FELLOWSHIPS, AND HONORS

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- 2021 COZZARELLI PRIZE FINALIST (CLASS V), Proceedings of the National Academy of Sciences
- 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

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**Conference Presentations** (ASA: American Sociological Association, PAA: Population Association of America, INSNA: International Network of Analytical Sociologists, INAS: International Network of Analytical Sociologists, IC2S2: International Conference on Computational Social Science)

Lee, Byungkyu and Bernice Pescosolido. “Unemployment and Suicide in 21st Century America.” • PAA 2022

Lee, Byungkyu, Kangsan Lee, Benjamin Hartmann, and Peter Bearman. “Social Networks in COVID-19 America.” • PAA 2022

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 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

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### Courses Taught (†: graduate-level course)

Understanding Social Data. Fall 2019, Fall 2020

Causal Inference†. Fall 2019, Fall 2021

Social Network Analysis†. Fall 2020, Spring 2022

### Master’s Thesis Committee Member

2021 Patrick Kaminski

### Qualifying Exam Committee Member

2020 Max Coleman

2022 Benjamin Hartmann

2022 Anne Kavalerschik

**First-Year Faculty Mentor**

2019 Zhaodi Chen  
 2021 Ethan Weiland

**UNIVERSITY SERVICE**

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2021–22 Reviewer. Social Sciences Research Funding Program, Indiana University

**DEPARTMENT SERVICE**

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2021–22 Research Infrastructure Committee, Indiana University  
 2021–22 Karl Schuessler Award Committee, Indiana University  
 2020–22 Workshop and Colloquium Committee, Indiana University  
 2020–21 Graduate Fellowships Committee, Indiana University  
 2019–20 Karl 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**

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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.  
 2021– MEMBER. Population Association of America.  
 2018–20 TREASURER. Association of Korean Sociologists in America.  
  
 2016– AD HOC REVIEWER. *American Journal of Sociology*, *American Sociological Review*, *American Journal of Preventive Medicine*, *Annals of Epidemiology*, *European Sociological Review*, *JAMA Network Open*, *Journal of Experimental Political Science*, *Journal of Health and Social Behavior*, *Network Science*, *Proceedings of the National Academy of Sciences*, *Research in Social Stratification and Mobility*, *Science Advances*, *Scientific Reports*, *Social Forces*, *Social Networks*, *Social Science Research*, *Social Psychology Quarterly*, *Sociological Methods and Research*, *Sociological Perspectives*, *Socius*.