

# BYUNGKYU LEE

*Curriculum Vitae*

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Department of Sociology  
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## ACADEMIC POSITIONS

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2023–      Assistant Professor, Department of Sociology, New York University  
2019–23   Assistant Professor, Department of Sociology, Indiana University  
2018–19   Visiting Assistant Professor, Network Science Institute, Indiana University

## EDUCATION

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2012–18   Ph.D., Sociology, Columbia University  
2009–12   M.A., Sociology, Yonsei University  
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 (\* : graduate student coauthor)

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### Peer-Reviewed Articles

- 2023    Lee, Byungkyu, Kangsan Lee, and Benjamin Hartmann\*. “Transformation of Social Relationships in COVID-19 America: Remote Communication May Amplify Political Echo Chambers.” *Science Advances* 9(51):eadi1540.
- 2023    Jarman, Molly, Mengyuan Ruan, Masami Tabata-Kelly, Brea Perry, Byungkyu Lee, Malaz Boustani, and Zara Cooper. “Detecting Variation in Clinical Practice Patterns for Geriatric Trauma Care Using Social Network Analysis”. *Annals of Surgery*. In Press.
- 2022    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 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.
- Featured in *Everyday Health*, *Pain Medicine*, and *HealthDay News*
- 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 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 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. (†: equal contribution)
- Best Publication Award on the Sociology of Mental Health, Section on Sociology of Mental Health, American Sociological Association.
- 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.
- Cozzarelli Prize Finalist (Class V), the Proceedings of the National Academy of Sciences Editorial Office.
- 2020 Lee, Byungkyu and Peter Bearman. “Political Isolation in America.” *Network Science* 8(3): 333-355.
- Cited by the 2023 U.S. Surgeon General’s Advisory on *Our Epidemic of Loneliness*

*and Isolation.*

- 2017 Lee, Byungkyu and Peter Bearman. "Important Matters in Political Context." *Sociological Science* 4:1-30.
- 2016 Lee, Byungkyu and Dalton Conley. "Robust Null Findings on Offspring Sex and Political Orientation." *Social Forces* 95(2):899-908.
- 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)  
 • 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.

### **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.  
 • Best 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 (\* : graduate student coauthor)

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### Under Review

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

Lee, Byungkyu and Bernice Pescosolido. "Misery Needs Company: Contextualizing the Link  
Between Unemployment and Suicide Under Labor Market Precarity." *American Sociologi-  
cal Review*, Revise and Resubmit.

Kim, Junsol\* and Byungkyu Lee. "AI-Augmented Surveys: Leveraging Large Language Models  
and Surveys for Opinion Prediction." Under Review.

### Working Papers

Lee, Byungkyu and James Chu. "COVID-19 Vaccination Rates Are Lowest among Political Out-  
siders in the United States."

Lee, Byungkyu, Erica Hobby, Sarah Cowan, and Brea Perry. "Impacts of the Alaska Permanent  
Fund Dividend Program on Suicide."

Lee, Byungkyu, Sumedha Gupta, Patrick Kaminski\*, Meltem Odabas, Patricia Freeman, Yong-  
Yeol Ahn, and Brea Perry, "Racial Disparities in Pain Management and Opioid Use Disorder  
Treatment in the Commercially Insured Population, 2010-2021."

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."

Lee, Byungkyu. "The Protective Effects of Social Capital on Mortality Risk (not)."

## GRANTS

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### External grants

2022–24 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 Grant (\$89,888).

2022–27 CO-INVESTIGATOR (PI: Brea Perry), "Epigenetic Mechanisms Underlying the Direct  
and Moderating Effects of Social Connectedness on Complex Diseases in Aging",  
National Institutes of Health, R01 (\$3,562,131).

- 2021–24 PRINCIPAL INVESTIGATOR (with PIs Barum Park and Mark Hoffman), “Collaborative research: How Online Foci Shape Conversation”, National Science Foundation (\$352,729).
- 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 (\$23,549).
- 2021–23 CO-INVESTIGATOR (PI: Peter Bearman), “Trust and Distrust”, Facebook (\$200,000).
- 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 (\$20,000).
- 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 (\$6,000).
- 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 (\$25,000).

### AWARDS, FELLOWSHIPS, AND HONORS

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- 2022 BEST PUBLICATION AWARD, Section on Sociology of Mental Health, American Sociological Association.
- 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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**Paper 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)

Kim, Junsol and Byungkyu Lee. “Predicting Public Opinion through The Integration of Large Language Models and Nationally Representative Surveys” • IC2S2 2023 • ASA 2023

Lee, Byungkyu and Kangsan Lee. “Ingroup Bias and Othering Process in Close Social Ties: How Americans Perceive The Infection Status of Others During the COVID-19 Pandemic.” • INSNA 2023 • IC2S2 2023 • Frontiers of Network Science, New York University, 2023

Lee, Byungkyu, Zhaodi Chen, and Peter Bearman. “The Role of Tie Activation in the Formation of Relational Trust.” • Experimental Design Workshop, INCITE, Columbia University 2022 • Meta 2022

Lee, Byungkyu, Erica Hobby, Sarah Cowan, and Brea Perry. “Impacts of the Alaska Permanent Fund Dividend Program on Suicide.” • Cash Transfer Lab, New York University 2022 • PAA 2023

Lee, Byungkyu, Kangsan Lee, and Benjamin Hartmann. “Americans Together but Politically Apart: Social Networks in COVID-19 America.” • PAA 2022 • INSNA 2022 • Politics and Computational Social Science conference 2022 • Polarization and Radicalization Working Group 2022 • ASA 2023

Lee, Byungkyu and Bernice Pescosolido. “Unemployment and Suicide in 21st Century America.” • PAA 2022, • National Violent Death Reporting System Conference 2023

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

- 2024 Seminar Series, the Stone Center on Socio-Economic Inequality at the CUNY Graduate Center.
- 2024 Seminar Series, the Center for Demography and Ecology, University of Wisconsin – Madison.
- 2023 Methodology Forum, Institute of Social Sciences, Seoul National University.
- 2023 Guest Lecture, The Summer Institute in Computational Social Science – Korea.
- 2023 Methodology Lecture, Korea Inequality Research Network Symposium.
- 2023 Department Colloquium, Department of Precision Public Health, Korea University.
- 2023 Networks Lunch Colloquium, Network Science Institute, Indiana University.
- 2023 CNS-NRT Special Speaker Series, Indiana University.
- 2020 Workshop in Methods, Indiana University.
- 2017 Social Research and Public Policy Seminar Series, NYU, Abu Dhabi, UAE.

## TEACHING AND MENTORING

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### Courses at New York University

Generative AI in Society: Opportunities, Challenges, and Risks. Fall 2023  
 Research Methods. Fall 2024.

### Courses at Indiana University (†: graduate-level course)

Understanding Social Data. Fall 2019, Fall 2020  
 Causal Inference†. Fall 2019, Fall 2021, Spring 2023  
 Social Network Analysis†. Fall 2020, Spring 2022

### Dissertation Committee Member

Indiana University: Helge Johannes Marahrens (2023), Anne Kavalierchik (2022–), Zhaodi Chen (2022–), Lili Miao (2023–), Patrick Kaminski (2023–).

### Master’s Thesis Committee Member

Indiana University: Patrick Kaminski (2021)

**Qualifying Exam Committee Member**

Indiana University: Patrick Kaminski (2023), Anne Kavalerchik (2022), Max Coleman (2020)

**UNIVERSITY SERVICE**


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**Indiana University**

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

2020–21 Reviewer. Social Sciences Research Funding Program, Indiana University

**DEPARTMENT SERVICE**


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**New York University**

2023–24 Graduate Admission Committee

**Indiana University**

2022–23 Graduate Fellowships Committee  
 Karl Schuessler Award Committee  
 Research Infrastructure Committee  
 Diversity, Equity and Inclusion Committee

2021–22 Workshop and Colloquium Committee  
 Karl Schuessler Award Committee  
 Research Infrastructure Committee

2020–21 Workshop and Colloquium Committee  
 Graduate Fellowships Committee

2019–20 Karl Schuessler Award Committee  
 Library Coordinator

**Columbia University**

2016 MODERATOR. Sociology Senior Thesis Presentations

2015–16 FACULTY ADVISOR. China High School Fellowship Program, *INCITE*

2014–18 CO-ORGANIZER. Networks and Time Seminar Series, *INCITE*

**PROFESSIONAL SERVICE AND AFFILIATION**


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**American Sociological Association (ASA)**

2023 MEMBER. Best Graduate Student Paper Award Committee, *Rationality and Society*

2023 SESSION ORGANIZER. *Section on Evolution, Biology, and Society*



### Association of Korean Sociologists in America (AKSA)

- 2023 DISCUSSANT. AKSA Research Roundtable  
 2021 MEMBER. Best Graduate Student Paper Award Committee  
 2018–20 TREASURER

### Others

- 2023– AFFILIATED FACULTY. *Identities and Ideologies Project*, New York University  
 2019– MEMBER. *Biosociology Research Group*, Princeton University  
 2018– RESEARCH AFFILIATE. *INCITE*, Columbia University  
 2014–18 GRADUATE FELLOW. *INCITE*, Columbia University  
 2014–18 GRADUATE FELLOW. *Center on Organizational Innovation*, Columbia University  
 2023 GUEST EDITOR. *Proceedings of the National Academy of Sciences*  
 2023– ADVISORY PANEL. *National Science Foundation*  
 2023 AD HOC REVIEWER. *Social Sciences and Humanities Research Council of Canada*  
 2022 AD HOC REVIEWER. *National Science Foundation*  
 2022 AD HOC REVIEWER. *Columbia University Press*  
 2016– AD HOC REVIEWER. *American Journal of Sociology, American Sociological Review, American Journal of Preventive Medicine, Annals of Epidemiology, Brain Research Bulletin, European Sociological Review, Frontiers in Big Data, 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, Sex Roles, Science Advances, Scientific Reports, Social Forces, Social Networks, Social Science Research, Social Psychology Quarterly, Sociological Methods and Research, Sociological Methodology, Sociological Perspectives, Socius*