



Jieun Lee

PhD in Economics from University of Illinois Urbana-Champaign
Visiting Scholar, Department of Economics, Emory University

Research Interest: Econometrics, Machine-Learning

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Language: English (fluent), Korean (native)

Citizenship/Immigration: South Korea (citizen), United States (permanent resident)

Professional Appointments

Emory University, USA

Visiting Scholar, Department of Economics, Emory University, 2026 – Present

Invited by Prof. Esfandiar Maasoumi to collaborate on a project developing the economic foundations of machine learning models.

Postdoctoral Fellow, Hubert Department of Global Health, Emory Rollins School of Public Health, 2023 – 2025

Served as Econometrician for the lab (Prof. Hui Shao), leading causal machine learning and quantitative methodology.

Education

University of Illinois Urbana-Champaign (UIUC), USA

Doctor of Philosophy (PhD) in *Economics* (2023) *Dissertation: Essays on Spatial, Health, and Socioeconomic Interactions*

Master of Science (MS) in *Mathematics* (2022); *Statistics-Applied* (2021)

Ewha Womans University, South Korea

Master of Arts (MA) in *Economics* (2016); Bachelor of Arts (BA) in *Economics* (2013)

Research Interest

Econometrics, Machine-Learning

Research (Chronological order)

Econometrics, Machine-Learning

8. Testing the endogeneity of a spatial weight matrix in the weak-tied spatial dynamic panel data model. *Econometric Reviews*, (2025), 44(4), 462–511. <https://doi.org/10.1080/07474938.2024.2427600> [Publication](#) [Manuscript Package](#)

7. Specification and Estimation for Correlated Trade Flows (with Hanbat Jeong)

6. Power Divergence Estimation (with Anil K. Bera)

5. Economics and Machine Learning (with Esfandiar Maasoumi)

4. Specification and Estimation for Congested Networks (with Florian Gunsilius)

3. Robust Inference Based on a Local Parametric Misspecification Quantity (with Florian Gunsilius)

2. Robust Inference under Weak Identification (with Xiye Yang)

1. Robust Standard Error Adjustment (with Hanbat Jeong)

Empirical Studies

3. Health Capital and Knowledge Spillover in Economic Growth (with Stephen L. Parente)

2. Investment in social capital by the Korean elderly and baby-boomers (with V.Hlasny). *The Journal of the Economics of Ageing*, (2020), 17, 100256. [Publication](#) [Manuscript](#)

1. Identifying Novel Social Determinants of Health Subgroups among the General US Population: A Machine Learning Approach (with Xue, Q., Li, P., Mitchell, E., Weber, M.B., Yue, D., Hong, Y., Dieci, M., Harding, J.L., Ali, M.K., Shao, H.)

Seminar & Conference

(*: Scheduled)

2026: American Economic Association - Allied Social Science Associations*

2025: American Diabetes Association Scientific Sessions; World Congress of the Econometric Society; KSU/Emory Global Diabetes Research Center Symposium; Midwest Econometrics Group; UIUC Econometrics Seminar; Emory Econometrics Seminar; Southern Economic Association*

2024: American Diabetes Association Scientific Sessions; Midwest Econometrics Group

2023: Purdue Ag Econ (Job Talk for Tenure Track Assistant Professor - Quantitative Methods in Spatial Analysis); Rutgers Econ (Job Talk for Tenure Track Assistant Professor - Econometrics and Macroeconomics); UIUC Guest Lecture for Econometrics II (ECON 575, Instructor: Anil Bera); UIUC Econometrics Lab Lunch Seminar; Midwest Econometrics Group; North American Meetings of the Regional Science Association International held jointly with the Spatial Econometrics Association; International Conference on Computational and Financial Econometrics

2022: Midwest Econometrics Group (Mentoring Workshop for Junior Female Economists)

2019: MEEA Meeting in conjunction with the Allied Social Sciences Association

2016: East Asian Social Policy Network International Annual Conference; Korea and the World Economy: New Economic Paradigm and Sustainable Development; Aging & Society: Seventh Interdisciplinary Conference

Professional Service & Membership

Referee for *International Review of Economics*, *Spatial Economic Analysis*, *Journal of Organizational Effectiveness: People and Performance*, *PharmacoEconomics*, *Journal of Diabetes Research*.

Member of the *Econometric Society*, *American Economic Association (AEA)*, *Korea-America Economic Association (KAEA)*, *Korean Women Economists Networking (KWEN)*, *Spatial Econometrics Association (SEA)*, *Southern Economic Association (SEA)*.

Teaching & Grading Experience

Econometric Analysis I (PhD Core, ECON 532)

2020 (Fall) & 2021 (Fall) & 2022 (Fall) Grader, Department of Economics, University of Illinois Urbana-Champaign, USA.

Econometrics of Policy Evaluation (Undergraduate, ECON 474)

2022 (Spring) Grader, Department of Economics, University of Illinois Urbana-Champaign, USA.

Macroeconomic Principles (Undergraduate, ECON 103)

2019 (Spring), 2020 (Spring) Discussion Section Instructor and Teaching Assistant, Department of Economics, University of Illinois Urbana-Champaign, USA.

Statistics in Economics (Undergraduate, ECON 202)

2017 (Fall) & 2018 (Spring, Fall) Discussion Section Instructor and Teaching Assistant, Department of Economics, University of Illinois Urbana-Champaign, USA.

2014 (Fall) & 2015 (Spring) Discussion Section Instructor and Teaching Assistant, Department of Economics, Ewha Womans University, South Korea.

Microeconometrics (Graduate)

2015 (Spring) Discussion Section Instructor and Teaching Assistant, Department of Economics, Ewha Womans University, South Korea.

Applied Econometrics (Undergraduate)

2014 (Spring) & 2015 (Spring) Discussion Section Instructor and Teaching Assistant, Department of Economics, Ewha Womans University, South Korea.

Honors, Scholarships, and Awards

Scholarship

Department of Economics, University of Illinois Urbana-Champaign, USA

Scholarship for Conference (2017 Fall, 2018 Fall)

Fellowship for PhD Students (2016 Fall, 2017 Spring)

Korea Student Aid Foundation, South Korea

Graduate Research Scholarship for Humanities and Social Sciences (2014)

Awards

Paper Competition for the Market Economy, South Korea (2014)

How to Lower the Barrier to Entry for Women in Korean Labor Market by Game Theory

Bestowed by KB Financial Group Inc. Chairman; organized by Market Economic Research Institute

Economic Universiade, South Korea (2012)

A Far-Sighted Policies to Develop Human Resources for the Economic Growth in Korea

Bestowed and organized by Edaily, Korea Association of Economic Education, SK communications; Sponsored by the Ministry of Strategy and Finance, Ministry of Knowledge Economy, Ministry of Education, Science and Technology, Ministry of Employment and Labor, Ministry of Environment