

MINCHUL PARK

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RESEARCH INTERESTS

Econometrics, Causal Inference, Applied Microeconomics, Data Science

PUBLICATIONS

“A selection correction method for heterogeneous treatment effects in staggered adoption settings”, single-authored, 2025, *Economics Letters*, 254, 112490.

“Hunting for fresh food: The impact of online fresh food platforms on health”, with Woo Hyeok An and Jae Il Choi, 2025, *Health & Place*, 91, 103400.

“Do news articles contain information useful for forecasting copper prices?”, single-authored, 2025, *Journal of The Korean Data Analysis Society*, 27(4), 1063–1080.

EDUCATION

| | |
|---------------------------------------|----------------------|
| Ph.D., Economics, Korea University | Feb. 2026 (expected) |
| M.A., Economics, Korea University | Feb. 2021 |
| B.Econ., Economics, Chosun University | Feb. 2019 |
| B.S., Mathematics, Chosun University | Feb. 2019 |

WORKING PAPERS

“Difference-in-differences for heterogeneous treatment effects in staggered and self-selected adoption settings”
(job market paper)

“A parametric specification test for Roy models”, with Chirok Han (draft available)

“Bootstrap inference on imputation-based treatment effect estimation with high-dimensional fixed effects”,
with Sang Soo Park (draft forthcoming)

WORK IN PROGRESS

“Machine learning-based standard errors for imputation-based treatment effect estimators”

PRESENTATIONS

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| The International Conference of the Association of Korean Economic Studies in Jakarta, Indonesia | Aug. 2023 |
| The Korean Econometric Society Summer Conference in Seoul, South Korea | Jun. 2024 |

TEACHING EXPERIENCE

Instructor

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|--|--------------------------|
| - (in English) Principles of Economics I (Undergraduate, Korea University) | Fall 2025 |
| - Econometrics I (Undergraduate, Korea University) | Winter 2023, Summer 2024 |
| - Mathematics for Economists (Undergraduate, Korea University) | Summer 2023 |
| - R Programming (2-day course, Korea University) | Sep. 2023 |

Teaching Assistant

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| - Econometric Analysis (Graduate, Korea University) | Fall 2022 |
| - Intermediate Econometrics (Undergraduate, Korea University) | Spring 2021 |
| - Econometrics I (Undergraduate, Korea University) | Spring 2020 |
| - Statistics for Economists (Undergraduate, Korea University) | Fall 2019 |

RESEARCH PROJECTS

Research assistant, Development of global demand forecasting and analysis/prediction system of market/industry trends,
Institute of Information & Communications Technology Promotion Jan. 2023 – Dec. 2024

SERVICE

Administrative coordinator, Korean Econometric Society Feb. 2024 – Feb. 2025
Administrative assistant, Fiscal Experts Network, Korea Institute of Public Finance Apr. 2023 – Dec. 2023

STATA MODULES

DIDSELECT: Stata module to implement the difference-in-differences estimation in staggered and self-selected adoption
ROY_SPECIFICATION: Stata module to implement specification tests for Roy models
DID_IMPUTATION_WILD: Stata module to implement bootstrap variance estimation for the imputation-based treatment effect estimator with high-dimensional fixed effects

SCHOLARSHIPS AND AWARDS

Scholarships

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| - Brain Korea 21 Plus Scholarship, National Research Foundation of Korea, Korea University | 2019 – 2023 |
| - Academic Excellence Scholarship, Chosun University | 2016 – 2018 |

Awards

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| - Outstanding Paper Award, Korea University | 2025 |
| - Excellence Award, Research Proposal Competition, Korea University | 2022, 2023 |
| - First Prize, Undergraduate Research Conference, Chosun University | 2016 |
| - Excellence Award, Academic Report Competition, Chosun University | 2016 |
| - Dean's List, Chosun University | 2016 – 2018 |
| - Certificate of Commendation for Exemplary Service (military service as an auxiliary police officer), Gwangju Metropolitan Police Agency | 2014 |

LANGUAGES AND COMPUTER SKILLS

Languages

- English (advanced), Korean (native)

Computer Skills

- Stata, Mata, R, Matlab, Python, L^AT_EX

References

Professor Chirok Han
Department of Economics
Korea University
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Professor Myoung-jae Lee
Department of Economics
Korea University
Email: myoungjae@korea.ac.kr

Professor Sang Soo Park
Department of Economics
Korea University
Email: starpac@korea.ac.kr

JOB MARKET PAPER

Difference-in-Differences for Heterogeneous Treatment Effects in Staggered and Self-Selected Adoption Settings

This paper proposes a new difference-in-differences estimator to estimate heterogeneous treatment effects in staggered adoption settings. To identify the average treatment effects, the proposed method introduces a selection model for treatment timing. With this model, the counterfactual trends in the difference-in-differences parameters are identified by deriving specific forms for the averages of unobserved confounders in those trends. This approach allows never-treated potential outcomes to be generated by an interactive fixed effects model, which permits non-parallel trends of the never-treated outcomes arising from unobserved confounders. Moreover, unlike most methods based on interactive fixed effects models, the proposed method does not require a large number of pre-treatment periods. The empirical relevance of the proposed method is illustrated by estimating the short-term effects of first childbirth timing on women's labor market outcomes. For practical implementation, a Stata command `didselect` is provided.