MINCHUL PARK

minchul1352@korea.ac.kr econompark.github.io github.com/econompark

RESEARCH INTEREST

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 PAPER

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

"A simple specification test for parametric 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

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

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

TEACHING EXPERIENCE

Instructor

- (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

- 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

SERVICE

Administrative coordinator, the 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

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

Awards

- 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, LaTeX
- Web scraping

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.