MINCHUL PARK

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RESEARCH INTEREST

Econometrics, Causal Inference, Applied Economics, 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"

"A simple specification test for parametric Roy models", with Chirok Han

"Bootstrap inference on imputation-based treatment effect estimation with high-dimensional fixed effects", with Sang Soo Park

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. Under 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 identification approach permits non-parallel trends in the never-treated outcomes by allowing them to be generated by an interactive fixed effects model. Moreover, unlike most methods based on interactive fixed effects models, the proposed method does not require a large number of pre-treatment periods. The proposed method is particularly suitable for settings where treatment timing is self-selected, and its empirical relevance 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.