MINCHUL PARK

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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

Research Interests

Econometrics, Applied Microeconomics, Data Science, Treatment Effect Analysis

Publications

"A selection correction method for heterogeneous treatment effects in staggered adoption settings", single-authored, 2025, *Economics Letters*, 254, 112490. [SSCI, IF 1.8, Rating Q2]

"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. [SSCI, IF 4.1, Rating Q1]

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

Working Papers

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

This paper proposes a new difference-in-differences estimator for heterogeneous treatment effects in staggered adoption settings. To identify the average treatment effects, a selection model for treatment timing is introduced. With this model, the counterfactual trends in the difference-in-differences parameters are identified by deriving specific forms of the average unobserved confounders. This approach allows for violations of the parallel trends assumption due to unobserved confounders. Unlike most methods addressing the non-parallel trends issue, the proposed method does not require a large number of pre-treatment periods. Extensions of the proposed method are also considered, including an extension to multivalued treatments. 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.

A parametric specification test for Roy models, with Chirok Han

This paper introduces a new specification test for parametric Roy models, which assesses whether economic agents' decisions follow the original or generalized Roy model. We derive a new restriction equivalent to the original Roy model and propose a Wald test based on this restriction. Unlike existing methods, our test does not require instruments because it utilizes only parameters that can be identified without them. To facilitate the practical application of the proposed method, we provide a Stata command `roy_specification`.

Work in Progress

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

"Machine learning-based standard errors for imputation-based treatment effect estimators"

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

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

Teaching Experience

Instructor (Department of Economics, Korea University)

- Principles of Economics I (Undergraduate) — Fall (half semester) 2025
- Econometrics I (Undergraduate) — Winter 2023, Summer 2024
- Mathematics for Economists (Undergraduate) — Summer 2023

Teaching Assistant (Department of Economics, Korea University)

- Econometric Analysis (Graduate) — Fall 2022
- Intermediate Econometrics (Undergraduate) — Spring 2021
- Econometrics I (Undergraduate) — Spring 2020
- Statistics for Economists (Undergraduate) — Fall 2019

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

Service

Administrative coordinator, Korean Econometric Society — Feb. 2024 – Feb. 2025

Administrative assistant, Fiscal Experts Network, Korea Institute of Public Finance — Apr. 2023 – Dec. 2023

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 (fluent), Korean (native)

Computer Skills

- Stata/Mata, R, Matlab, Python, LaTeX

References

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