

Seung Yeon Jung

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EDUCATION

Ph.D. in Economics, <i>Michigan State University</i>	<i>Expected May 2025</i>
M.Sc. in Economics, <i>Michigan State University</i>	<i>2022</i>
M.A. in Economics, <i>Korea University</i>	<i>2020</i>
B.A. in Economics, <i>Korea University</i>	<i>2018</i>

SKILLS

Tools and Languages	R, Stata, Python, Gauss, LaTeX
Quantitative Research	Causal Inference, Mathematical Modeling, Data manipulation/ Visualization
Communication	English, Korean

WORK EXPERIENCE

Research Assistant/ "Consumer food purchase behavior during the COVID-19 pandemic" May 2022- Aug 2022
Michigan State University, for Prof. Mike Conlin

- Assisted in analyzing how grocery shopping behavior changed throughout the COVID-19 pandemic using large-scale retailer transaction records (panel data).
- Contributed to writing estimation models with fixed effects.

Research Assistant/ "Korea Unification: Economic Adjustments Under German Assumptions" June 2017- Aug 2017
Korea University, for Prof. Jong-Wha Lee

- Explores the impact of unification on North and South Korea under the hypothetical scenario that German-type reunification occurs in the Korean Peninsula using simulation results with a global dynamic general equilibrium model.
- Conducted literature review and organized the stylized facts of German unification.

Teaching Assistant, Michigan State University 2021-2022

- Undergraduate economics courses, led review sessions and R sessions.

Teaching Assistant, Korea University 2018-2019

- Mathematics for Economists, held special sessions on linear algebra and R sessions.

RESEARCH EXPERIENCE

Understanding smokers' behavior to quit: Tobacco purchasing behavior response to stop selling cigarettes in-store June 2022 – present

- Use large-scale purchasing panel data and conduct event study and difference-in-difference analysis to analyze the impact of the store policy to stop selling cigarettes in-store.
- Linked millions of transaction data with customer loyalty numbers to construct household-level panel data and analyzed the large data sets with parallel computing on MSU's High-Performance Computing (HPC) system.

The Effect of Restricting the Cram School Operation Time on the Private Education Market in Korea

Dec 2019 – Aug 2020

- Estimate how restricting the operation hours of cram schools affect private education consumption in Korea, using difference-in-differences estimation.
- Finds that regulation was ineffective in reducing private education expenditure, because it could be substituted by early weekend classes.

Predicting Elderly depression and suicide: finding the best prediction model Sep 2019 - Dec 2019

- Used machine learning methods (LASSO, classification tree, random forest) and compared them to examine how accurately each model predicts an individual being in the high-risk mental group.
- The key variable affecting depression was one's subjective opinion on economic and health status, regardless of their exact status.

ACTIVITIES

Board Member, Economics Graduate Student Organization, Michigan State University	2022-2023
Graduate Economics First-Year Mentor	2021-2022