Jae Yu Jung

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EDUCATION

Ph.D. in Economics, Michigan State University — May 2026 (expected)
– dual major in Environmental Science and Policy
M.A. in Economics, Seoul National University — August 2019
B.A. in Economics, Seoul National University, *Summa Cum Laude* — February 2016

RESEARCH PROJECTS

Do EV Charging Stations Care about Electricity Rates?
- Manually collected electricity rate schedules from individual utility companies and state regulatory bodies.
- Used Python to build panel dataset: electricity prices, EV chargers, state subsidies, and demographics
- Conducted causal inference (Synthetic Difference-in-Differences, Local Projection Difference-in-Differences) to estimate effect of the introduction of rate schedules dedicated to EV charging stations on their entry decisions.
- Presented key findings at multiple academic economics conferences in front of 20+ audiences.

The Impact of Extended Driver's License Renewal on Fatal Crashes Among Older Drivers
- Synthesized data from the Fatality Analysis Reporting System (FARS) with manually collected state-level policy data to construct a novel dataset for the analysis.
- Evaluated the public safety impact of Maryland's driver's license renewal extension on fatal crashes involving senior drivers (65+) using the Synthetic Difference-in-Differences (SDID) method.
- Quantified a statistically significant rise in urban fatal crashes involving senior drivers and vehicles.

WORK EXPERIENCE

Technical Assistant, Michigan State University — Fall 2024 - Summer 2025
- Spearheaded a comprehensive digital overhaul for Prof. Richard T. Baillie, managing his professional webpage and publications while serving as the primary liaison with the IT department to resolve critical technical issues.

Research Assistant for Prof. Prabhat Barnwal, Michigan State University — Spring 2024
- Web-scraped the Indian regional economy data and export data from two different sources using Python.
- Analyzed the data using Stata.

Research Assistant for Prof. Oren Ziv, Michigan State University — Fall 2022
- Analyzed paper abstracts to create a training dataset to automate analysis via machine learning.

Instructor, Michigan State University — Summer 2021 - Fall 2021
- Delivered complex economic concepts to novice audiences, ensuring clarity and comprehension.
- Organized exams and problem sets for Intermediate Macroeconomics (Online, 67 students)
- Directed a student project testing the 'Hot hand' theory in Economics of Sports (Online, 35 students).

Teaching Assistant, Michigan State University — Fall 2019 - Spring 2023
- Led weekly recitation sections for the Ph.D. core Microeconomics course.
- Delivered instruction across a range of economics courses (Undergraduate: Intermediate Micro/Macro, International Economics; Graduate: Microeconomics, Public Finance, and Quantitative Methods).

Auxiliary Police, South Korea — Feb. 2012 - Nov. 2013
- Provided protective detail for former President Kim Young-sam.
- Led a squad as Squad Leader during mandatory military service, supervising 5 colleagues.

SOFTWARE SKILLS

Python, Stata, R, LaTeX, Matlab