

Jae Yu Jung

Curriculum Vitae

CONTACT INFORMATION

Institute: Department of Economics, Michigan State University
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EDUCATION

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

FIELDS OF INTEREST

Applied Microeconomics (Energy, Environment, Transportation, and Public)

RESEARCH

Do EV Charging Stations Care about Electricity Rates? Job Market Paper
Supported in part by the Environmental Science and Policy Program, Michigan State University

- I study the effect of electricity prices on market entry of electric vehicle (EV) charging stations. I compile a novel dataset linking commercial electricity prices to charging stations across U.S. ZIP codes from 2015–2022. I convert complex pricing schedules into a standardized cost metric by constructing station-level load profiles from observed charging sessions and calculating monthly bills. Using synthetic control and local projection difference-in-differences designs, I estimate the effects of new price schedules for EV charging stations, aimed at reducing high demand charges. The results show that these schedules substantially lowered demand charges for DC fast charging stations by 50% and increased the entry of DC fast charging ports by 35% per zip code, underscoring the role of targeted rate design in accelerating EV infrastructure growth.

The Effect of Driver's License Renewal Extensions on Fatal Crashes among Senior Drivers: Evidence from Maryland Across Urban and Rural Areas (with Heesu Kim)

- We examine the impact of Maryland's driver's license renewal period extension on fatal crashes involving senior drivers using county-level data from 2012–2019 and the Synthetic Difference-in-Differences method. The reform increased fatal crashes among older drivers, particularly in urban counties, with some estimates statistically significant. The findings suggest that renewal cycle extensions may exacerbate crash risks for senior drivers, especially in urban areas.

The Role of Electricity Substations in EV Charging Station Location
work in progress

- I estimate the causal effect of grid proximity on new station entry, using substation and charger location data.

RESEARCH EXPERIENCE

Research Assistant for Prabhat Barnwal, Michigan State University	Spring 2024
Research Assistant for Oren Ziv, Michigan State University	Fall 2022
Research Assistant for Jihong Lee, Seoul National University	Jul. 2018 - Aug. 2019
Research Assistant for Center for National Competitiveness, Seoul National University	Jul. 2016 - Jan. 2017

TEACHING EXPERIENCE

Instructor	
Intermediate Macroeconomics (Online), Michigan State University	Fall 2021
Economics of Sports (Online), Michigan State University	Summer 2021
Teaching Assistant, Graduate Level	
Public Finance, Michigan State University	Spring 2023
Public Finance, Michigan State University	Spring 2022
Public Finance, Michigan State University	Spring 2021
Quantitative Methods II, Michigan State University	Spring 2021
Microeconomics I, Michigan State University	Fall 2020
Teaching Assistant, Undergraduate Level	
Survey of International Economics, Michigan State University	Fall 2022
Intermediate Macroeconomics, Michigan State University	Spring 2020
Intermediate Microeconomics, Michigan State University	Fall 2019
Market Design Theories and Applications, Seoul National University	Spring 2018
Microeconomics, Seoul National University	Spring 2018
Introductory Statistics for Economists, Seoul National University	Fall 2016

WORK EXPERIENCE

Economics Graduate School Computer Lab RA, Michigan State University	Fall 2023
Proctoring Coordinator, Michigan State University	Fall 2023
Proctoring Coordinator, Michigan State University	Spring 2023
Proctoring Coordinator, Michigan State University	Fall 2022

PRESENTATIONS

Southern Economic Association 95th Annual Meeting	November 2025
Workshop on the Economics and Policy of Electric Transportation Charging Infrastructure (hosted by Harvard University Salata Institute)	November 2025
ESPP Student Research Symposium	October 2025
MSU/UM Energy, Environmental Economics Day	August 2025
International Transportation Economics Association Annual Conference	June 2025
Western Economic Association International 100th Annual Meetings	June 2025
Midwest Economic Association 89th Annual Meetings	March 2025
Fate of the Earth: Our Waters Symposium (Michigan State University, Poster)	March 2025
Eastern Economic Association 51st Annual Conference	February 2025
Missouri Valley Economic Association 61st Annual Conference	October 2024
ESPP Student Research Symposium	October 2024
MSU/UM Energy, Environmental Economics Day	August 2024
Western Economic Association International 99th Annual Conference	June 2024

SKILLS

Languages: Korean (native), English (fluent)	
Methodologies & Expertise: Causal Inference (Difference-in-Differences, Synthetic Control), Policy Evaluation, Interdisciplinary Research, Data Analysis	
Software: PYTHON, STATA, R, MATLAB, L ^A T _E X	

HONORS, AWARDS AND FELLOWSHIPS

Southern Economic Association Graduate Conference Award (\$100)	Fall 2025
ESPP Student Travel Support (\$1,612.11)	Spring 2025
Lillian Kumata Scholarship (\$1,729.5)	Spring 2025
The Mary Louise Gephart Donnell Fellowship (\$3,750)	Spring 2025
Lillian Kumata Scholarship (\$1,729.5)	Fall 2024
Council of Graduate Students Conference Award (\$300)	2024
Peter Schmidt Award (\$250)	2020
ESPP Doctoral Recruiting Fellowships (\$19,000)	Fall 2019-Spring 2020
Summa Cum Laude	2016
Lecture & Research Scholarship	Spring 2018
Brain Korea 21 Plus	Fall 2017
Brain Korea 21 Plus	Spring 2016-Fall 2016
The Next Century Humanities Scholarship	Spring 2015-Fall 2015
The Next Century Humanities Scholarship	Spring 2010-Fall 2012

REFERENCES

Soren T. Anderson Associate Professor Department of Economics Michigan State University sta@msu.edu	Kyoo il Kim Professor Department of Economics Michigan State University kyookim@msu.edu	A. Justin Kirkpatrick Assistant Professor Department of Economics Michigan State University jkirk@msu.edu
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