

Kangwook Noh

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EDUCATION	University of Kentucky Ph.D., Public Policy & Administration University of Houston M.A., Economics California State University, San Bernardino B.A., Economics	Lexington, KY 2022–2027 (expected) Houston, TX 2017 San Bernardino, CA 2014
FIELDS OF INTEREST	Primary: Economics of Education, Education Policy and Finance, Labor Economics Secondary: Causal Inference, Machine Learning	
REFERENCES	Prof. William Hoyt (Chair) Martin School of Public Policy & Administration University of Kentucky whoyt@uky.edu Prof. Iuliia Shybalkina Martin School of Public Policy & Administration University of Kentucky iuliia.shybalkina@uky.edu	Prof. Rajeev Darolia Martin School of Public Policy & Administration University of Kentucky rajeev.darolia@uky.edu
PUBLICATIONS	Nexus Between Capital Inflow and Economic Growth: Evidence from Indonesia (with J. C. D. Rijoly, and I. P. Y. B. Pradana), <i>Asian Academy of Management Journal of Accounting and Finance</i> , vol. 21, no. 1, pp. 25–52, 2025.	
POLICY BRIEFS & REPORTS	Legislative Background for Work Ready Kentucky Scholarship (with R. Darolia, R. Zimmer, C. Guo, E. Wilcox), 2026. Effects of Work Ready Kentucky Scholarship: Program Enrollment and Credential Completion (with R. Darolia, R. Zimmer, C. Guo, E. Wilcox), 2024. Work Ready Kentucky Scholarships: Who Participates? (with R. Darolia, R. Zimmer, C. Guo, E. Wilcox), 2023.	
WORKING PAPERS	Heterogeneous Returns to Sub-Baccalaureate Credentials: A Machine Learning Approach	

Understanding the Impact of Work Ready Kentucky Scholarships (with R. Darolia, C. Guo, R. Zimmer, and E. Wilcox), 2022 - Present

- Built a 50-state inventory of workforce-aligned scholarship programs by reviewing state policy documents and compiling program rules (eligibility, covered credentials, funding, or review system)
- Cleaned and merged Kentucky administrative data, integrating degree, enrollment, master person identifiers, financial aid, readiness, and course enrollment with UI wage records in Stata to analyze the effect of enrolling in Work Ready Kentucky Scholarship programs.
- Wrote Stata code for a Difference-in-Differences design using 7.5 million observations.
- Wrote and published three policy briefs.

Heterogeneous Returns to Sub-Baccalaureate Credentials: A Machine Learning Approach

- Constructed a student-level analysis dataset linking sub-baccalaureate credential completion to UI wage records for 160,000 observations.
- Estimated average and heterogeneous treatment effects (ATE, GATET, IATET) using Double Machine Learning and Causal Forests in Python; analyzed heterogeneity by gender, race, major, prior income, and credit accumulation.
- Estimated DiD with PSM weights to compare the performance with Machine Learning estimates.
- Produced visualizations of each subgroup and distributional patterns.

Welfare Effects of State Postsecondary Scholarships: MCT Approach

- Applied the Marginal Corrective Transfer (MCT) framework of Agrawal, Hoyt, and Ly (2025) to evaluate interjurisdictional fiscal externalities from Florida's need-based Student Assistance Grant.
- Estimated local and social Marginal Values of Public Funds (MVPFs) by combining causal program estimates with state administrative scholarship data, ACS housing data, property-tax millage rates, and Zillow rent data.
- Quantified welfare components including student willingness to pay, housing-market effects, property-tax revenues, fiscal externalities, and migration-related spillovers across jurisdictions.
- Developed a framework for comparing need-based and merit-based state financial aid programs and assessing when intergovernmental transfers may improve social welfare.

Office of Student Research Program

- Developed and estimated a Structural VAR model to study fiscal policy effects using the Hicksian supermultiplier framework; compiled quarterly macroeconomic series from FRED and the Bureau of Economic Analysis.
- Conducted lag selection, Granger causality tests, variance decomposition, and impulse response analysis; simulated GDP paths under alternative government spending scenarios.

CONFERENCE & SEMINAR PRESENTATIONS (INCLUDING SCHEDULED)	Kentucky Economics Association	2026
	MidSouth Education Policy Workshop	2026
	National Tax Association	2026
	University of Kentucky UNITE Research Showcase	2026
	Martin School of Public Policy & Administration Seminar	2026
	Association for Public Policy Analysis and Management	2025
	Association for Education Finance and Policy	2025
	Midwestern Economics Association	2025
	Association for Education Finance and Policy	2023
	CSUSB Meeting of the Minds Symposium	2015
	CSUSB OSR Summer Research Conference	2013
TEACHING EXPERIENCE	Instructor	
	Economics of Public Policy (Undergraduate)	Fall, 2023
	TA	
	Data and Evidence in Public Policy (Undergraduate)	Spring, 2024
HONORS & AWARDS	1st Place, UNITE Research Showcase, University of Kentucky, 2026	
	Presidential Graduate Fellowship, University of Houston, 2015	
	Economics Departmental Fellowship, University of Houston, 2015	
	Economics Department Honor, Cal State Univ. San Bernardino, 2014	
EXTRACURRICULAR ACTIVITIES	President, Bonfire International	2022 - present
	President, Korean Scholar Association	2023 - present
	Vice President & Treasurer, Korean Scholar Association	2022 - 2023
SKILLS & PERSONAL	Programming Languages: Stata; Python (pandas, NumPy, scikit-learn, statsmodels, matplotlib); R (tidyverse, ggplot2); SQL (Beginner); QGIS (beginner); $\text{\LaTeX}$	
	Methods: causal inference (DiD, RD, Matching, Fixed Effects); machine learning (Double Machine Learning, Causal Forests); data visualization	
	Languages and Communication: Korean (native), English (fluent); newsletter writing, data storytelling, research presentations, community outreach	
	Citizenships: Republic of Korea, US Permanent Resident	