

	University of Wisconsin-Madison Department of Economics 1180 Observatory Drive, Office 6408 Madison, WI 53706		Sewell Social Sciences (715) 212-4370 jcollison@wisc.edu jackcollison.github.io
EDUCATION	2021 - 2021 - 2023 2019 - 2021 2016 - 2020	Ph.D. Candidate in Economics M.S. in Economics M.S. in Statistics B.A. in Economics with Honors	UW-Madison UW-Madison Stanford University Stanford University
REFERENCES	Panle Jia Barwick (<i>chair</i>) UW-Madison pbarwick@wisc.edu	Jean-Francois Houde UW-Madison houde@wisc.edu	Alan Sorensen UW-Madison sorensen@ssc.wisc.edu
	Lorenzo Magnolfi UW-Madison magnolfi@wisc.edu	Christopher Sullivan University of Calgary christopher.sullivan1@ucalgary.ca	
RESEARCH FIELDS	Industrial organization, energy economics, sustainability, econometrics, machine learning		
RESEARCH ASSISTANCE	2024 - 2023 - 2024 2022 - 2023 2020 - 2021 2017 - 2019	Research Assistant for Panle Jia Barwick Research Assistant for Lorenzo Magnolfi and Christopher Sullivan Research Assistant for Ashley Swanson Research Assistant for Karen Eggleston Research Assistant for Liran Einav and Pete Klenow	UW-Madison UW-Madison UW-Madison Stanford University Stanford University
PROFESSIONAL EXPERIENCE	2019 - 2022 2020 2017	Research Analyst Intern Quantitative Research Intern Research Intern	Ellington Management Group QuantCo NASA Frontier Development Lab
JOB MARKET PAPER	“Endogenous Rigidities and (In)efficiencies: Evidence from the Petroleum Industry”		
PUBLICATIONS	“Enhancing the Merger Simulation Toolkit with ML/AI,” with Harold D. Chiang, Lorenzo Magnolfi, and Christopher Sullivan, <i>Proceedings of the 26th ACM Conference on Economics and Computation</i> , 2025. “The Impact of Online Food Delivery Services on Restaurant Sales,” <i>Stanford University Undergraduate Theses</i> , 2020.		
WORKING PAPERS	“Market Counterfactuals with Nonparametric Supply: An ML/AI Approach,” with Harold Chiang, Lorenzo Magnolfi, and Christopher Sullivan <i>Extended abstract appeared at the ACM Conference on Economics and Computation as “Enhancing the Merger Simulation Toolkit with ML/AI”</i> “The Welfare Effects of Passenger Transportation Infrastructure: Evidence from China’s High-Speed Rail Network,” with Panle Jia Barwick, Shanjun Li, and Yatang Lin “The Impact of Ride-Sharing Taxes: Evidence from Chicago”		
WORKS IN PROGRESS	“Product Entry and Industry Dynamics under Protectionism: Evidence from the Global EV Industry,” with Panle Jia Barwick, Shanjun Li, and Yucheng Wang “Approximations of High-Dimensional Markov Perfect Equilibrium in Dynamic Oligopoly” “Baseload Production and Electricity Price Variation,” with John Higgins		

CONFERENCES	2025	ACM Conference on Economics and Computation (Stanford University)*	
		International Industrial Organization Conference*†‡	
	2024	Midwest IO Fest (Northwestern University)‡	
		Econometric Society Summer School in Dynamic Structural Econometrics	
		Econometric Society Conference on Dynamic Structural Econometrics	
	2023	NBER Economics of Digitization and Artificial Intelligence Tutorial	
		NBER Economics of Digitization and Artificial Intelligence Conference	
		American Society of Health Economists Conference†	
	2022	American Society of Health Economists Conference*	
	* = presenter, † = discussant, ‡ = presented by coauthor		
AWARDS	2025	Department of Economics Travel Scholarship	UW-Madison
		Department of Economics Travel Scholarship	UW-Madison
		Graduate School Student Research Grant	UW-Madison
	2024	Culbertson Field Paper Scholarship	UW-Madison
		Juli Plant Grainger Summer Research Fellowship	UW-Madison
	2023	Juli Plant Grainger Summer Research Fellowship	UW-Madison
		Distinguished Teaching Assistant	UW-Madison
		Department of Economics Travel Scholarship	UW-Madison
	2022	Department of Economics Travel Scholarship	UW-Madison
	2021	Graduate School Fellowship	UW-Madison
	2020	Anna Laura Meyers Prize for Outstanding Honors Thesis	Stanford University
		Economics Departmental Honors	Stanford University
	2018	Economics Summer Research Grant	Stanford University
TEACHING EXPERIENCE	2025	ECON 717, Applied Econometrics (Ph.D.)†	UW-Madison
	2024	ECON 899, Topics in Computational Economics (Ph.D.)†	UW-Madison
	2023	ECON 570, Data Analytics for Economists*	UW-Madison
		ECON 899, Topics in Computational Economics (Ph.D.)†	UW-Madison
	2022	ECON 101, Principles of Microeconomics*	UW-Madison
	2022	ECON 725, Machine Learning for Economists†	UW-Madison
	* = Teaching Assistant, † = Guest Lecturer		
REFeree SERVICES	<i>Journal of the European Economic Association, Journal of Industrial Economics</i>		
TECHNICAL SKILLS	Python, R, Julia, SQL, Stata, Matlab, \LaTeX		