Jack Collison

University of Wisconsin-Madison

Department of Economics

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EDUCATION

2021 -	Ph.D. Candidate in Economics	UW-Madison
2021 - 2023	M.S. in Economics	UW-Madison
2019 - 2021	M.S. in Statistics	Stanford University
2016 - 2020	B.A. in Economics with Honors	Stanford University

REFERENCES

Panle Jia Barwick
UW-Madison
pbarwick@wisc.edu

Jean-Francois Houde
UW-Madison
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Lorenzo Magnolfi
UW-Madison
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Alan Sorensen
UW-Madison
sorensen@ssc.wisc.edu

Christopher Sullivan
University of Calgary
christopher.sullivan1@ucalgary.ca

RESEARCH FIELDS

Industrial organization, energy economics, sustainability, econometrics, machine learning

RESEARCH ASSISTANCE

2024 -	Research Assistant for Panle Jia Barwick	UW-Madison
2023 - 2024	Research Assistant for Lorenzo Magnolfi and Christopher Sullivan	UW-Madison
2022 - 2023	Research Assistant for Ashley Swanson	UW-Madison
2020 - 2021	Research Assistant for Karen Eggleston	Stanford University
2017 - 2019	Research Assistant for Liran Einav and Pete Klenow	Stanford University

PROFESSIONAL EXPERIENCE

2019 - 2022	Research Analyst Intern	Ellington Management Group
2020	Quantitative Research Intern	QuantCo
2017	Research Intern	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, *Proceedings of the 26th ACM Conference on Economics and Computation*, 2025.

"The Impact of Online Food Delivery Services on Restaurant Sales," *Stanford University Undergraduate Theses*, 2020.

WORKING PAPERS

"Market Counterfactuals with Nonparametric Supply: An ML/AI Approach," with Harold Chiang, Lorenzo Magnolfi, and Christopher Sullivan
Extended abstract appeared at the ACM Conference on Economics and Computation as "Enhancing the Merger Simulation Toolkit with ML/AI"

"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   *Journal of the European Economic Association, Journal of Industrial Economics*

TECHNICAL SKILLS   Python, R, Julia, SQL, Stata, Matlab, LaTeX