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RAN ZHUO

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Personal Information

Nationality: Chinese

Gender: female

Employment

University of Michigan, Ross School of Business

Assistant Professor of Technology and Operations

2024 – Present

Postdoctoral Research Fellow

2023 – 2024

Education

Harvard University

2017 – 2023

Ph.D. in Business Economics

Thesis title: “Three Essays on Economics of Innovation, Technology, and Policy”

Committee: Shane Greenstein, Myrto Kalouptsi, Robin Lee, Ariel Pakes, Elie Tamer

Harvard University

2017 – 2020

M.A., Business Economics

Dartmouth College

2013 – 2017

B.A., Economics and Mathematics, summa cum laude, class valedictorian

Journal Publications

“Social Imitation Dynamics of Vaccination Driven by Vaccine Effectiveness and Beliefs” (with Feng Fu and Xingru Chen). March 2025. Forthcoming, *PLOS Computational Biology*.

“Examining Selection Pressures in the Publication Process Through the Lens of Sniff Tests” (with Christopher Snyder). October 2023. Forthcoming, *Review of Economics and Statistics*.

“Hidden Software and Veiled Value Creation: Illustrations from Server Software Usage” (with Raviv Murciano-Goroff and Shane Greenstein). 2021. *Research Policy* 50 (9): 104333.

“The Impact of the General Data Protection Regulation on Internet Interconnection” (with Bradley Huffaker, kc claffy, and Shane Greenstein). 2021. *Telecommunications Policy* 45 (2): 102083.

“Do Low-Price Guarantees Guarantee Low Prices? Evidence from Competition between Amazon and Big-Box Stores.” 2017. *Journal of Industrial Economics* 65 (4): 719–738.

Working Papers

“Exploit or Explore? An Empirical Study of Resource Allocation in Research Labs.” December 2023. Reject and resubmit, *Management Science*.

“Navigating Software Vulnerabilities: Eighteen Years of Evidence from Medium and Large U.S.

Organizations” (with Raviv Murciano-Goroff and Shane Greenstein). March 2025. *Submitted*.
 “Industrial Policy, Location Choice, and Firm Performance in High-Tech Manufacturing” (with Audrey Tiew). April 2025.

Research in Progress

“Technology Upgrades, Demand Fluctuations, and Supply Coordination in Semiconductor Manufacturing Industry” (with Audrey Tiew).
 “Risk and Return in Scientific Research: Evidence from Structural Biology” (with Pierre Azoulay and Soomi Kim).

Honors, Scholarships, and Fellowships

2025	<i>Operations Research</i> Meritorious Service Award
2024	INFORMS TIMES Best Working Paper Award Winner
2023	INFORMS TIMES Best Dissertation Award Finalist
2021	Harvard Certificate of Distinction in Teaching
2017 – 2023	Harvard Graduate Student Fellowship

Presentations

2026	POMS Annual Meeting
2025	WashU Boeing Center for Supply Chain Innovation
	INFORMS 2025 (TIMES cluster session chair)
	International Conference on Evolutionary Game Theory and Artificial Intelligence (virtual plenary talk)
	Tauber Institute Symposium on Frontiers in Operations
	POMS Annual Meeting
	Columbia Business School (Decision, Risk, and Operations Division)
2024	INFORMS Annual Meeting
	AOM “New Frontiers in Open Source” PDW (panelist, roundtable discussant)
	MSOM TIE SIG
	POMS Annual Meeting
2023	Berkeley-Haas Entrepreneurship and Innovation Seminar
	WashU Olin Business School (PhD class guest speaker)
	Duke Fuqua Junior Strategy Conference
	INFORMS Annual Meeting
	Dartmouth IO Conference
	Benefits and Challenges of Open Source, New York University (panelist)
	Zhejiang University, School of Economics (virtual)
	Economics Research Seminar at Instacart (virtual)
	NBER Summer Institute Science of Science Funding
	IIOC rising star session
2022	MIT Junior Researcher Series Talk
	Innovation & Entrepreneurship Seminar, Max Planck Institute (virtual)
	NBER Productivity Seminar (virtual)
	EARIE 2022, University of Vienna

2021	TPRC48 main conference, American University (virtual)
2020	Workshop on Internet Economics, CAIDA, UCSD (virtual) WICK#8, Collegio Carlo Alberto, Turin, Italy (virtual) IIOC regular session, Drexel University (canceled due to COVID-19)
2018	Berkeley Initiative for Transparency in the Social Sciences, UC Berkeley

Manuscript Reviewing

Journals: *Behavioral Science & Policy*, *Computers, Materials and Continua*, *Economic Inquiry*, *International Journal of Industrial Organization*, *International Journal of Research in Marketing*, *Management Science*, *Manufacturing & Service Operations Management*, *Operations Research*, *Review of Economics and Statistics*, *Telecommunications Policy*

Conferences: DRUID23, MSOM 2023 (TIE SIG), AOM 2024 (CTO and TIM Divisions), 2025 INFORMS TIMES Best Working Paper Award (judge), 2025 INFORMS TIMES Best Dissertation Award (judge)

Professional Activities

Invited Researcher, J-PAL Science for Progress Initiative (SfPI) 2023 – Present

Faculty Advisor, Tauber Institute for Global Operations 2024 – Present

Industry partners: DTE Energy, National Center for Manufacturing Sciences (NCMS)

Board Member At Large, INFORMS TIMES 2025 – 2027

Teaching Experience

Winter 2026	TO 899: Doctoral Seminar in Technology and Operations (graduate), Michigan Ross, instructor for full-semester course
Fall 2025	TO 313: Operations Management (undergraduate), Michigan Ross, instructor
Fall 2024	TO 313: Operations Management (undergraduate), Michigan Ross, instructor
Winter 2024	TO 899: Doctoral Seminar in Technology and Operations (graduate), Michigan Ross, instructor for two sessions on innovation
Fall 2021	ECON 1126: Quantitative Methods in Economics (advanced undergraduate), Harvard University, teaching fellow for Professor Elie Tamer
Spring 2021	ECON 1123: Introduction to Econometrics (introductory undergraduate), Harvard University, teaching fellow for Professor Gregory Bruich
Fall 2019	Econ 2120: Principles of Econometrics (first-year graduate), Harvard University, course tutor for Professor Elie Tamer

Non-Academic Publications

“GDPR and Internet Interconnection” (with Bradley Huffaker, kc claffy, and Shane Greenstein). *Vox*, March 1, 2020. <https://voxeu.org/article/gdpr-and-internet-interconnection>.

“Ghost in the Shell.” 2015. Hanover: Dartmouth College Library Collection; Dunedin: University of Otago, Special Collections. Letterpress print.

John’s Adventure in Englishland. 2012. Hangzhou: Zhejiang Youth and Children’s Publishing House.