Jeffrey E. Sun

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Office Contact Information

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Academic Appointments

Assistant Professor, University of Toronto *2024-present*

Education

PhD Economics, Princeton University *2017-2024*

B.S. Mathematics, University of Michigan, Ann Arbor *2013-2016*

Fields

Climate Economics, Environmental Economics, Computational Methods, Spatial Economics, Urban Economics

Working Papers

1. "The Distributional Consequences of Climate Change: Housing Wealth, Expectations, and Uncertainty"
2. "Indirect Effects of Renewable Portfolio Standards on Carbon Emissions"
3. "Continuation Value Is All You Need: A Deep Learning Method for Solving Heterogeneous-Agent Models with Aggregate Uncertainty"
4. "Does Market Power in Agricultural Markets Hinder Farmer Climate Change Adaptation?" (with Rajat Kochhar and Ruozi Song)

Work in Progress

1. "Learning From Coworkers in General Equilibirum: Worker Sorting and the Rise of Inequality" (with Gregor Jarosch, Ezra Oberfield, and Esteban Rossi-Hansberg)
2. "Carbon Taxes in an Interconnected Economy" (with Rafael Dix-Carneiro, Saverio Spinella, and Sharon Traiberman)
3. "Green Transitions Into Alternate Histories" (with Konstantin Kucharyavyy)

4. "Green Financing, Capital (Mis)allocation, and Unintended Consequences" (with Poorya Kabir and Eugene Tan)

Publications

Mathematics

1. Bora, S., Damelin, S., Kaiser, D., & Sun, J. (2023), An algebraic-coding equivalence to the maximum distance separable conjecture, *Involve, a Journal of Mathematics*, Forthcoming.
2. Güntürkün, S., Jeffries, J., & Sun, J. (2020). Polarization of neural rings. *Journal of Algebra and Its Applications*, 19(08), 2050146.
3. Hua, M., Damelin, S. B., Sun, J., & Yu, M. (2017). The truncated and supplemented Pascal matrix and applications. *Involve, a Journal of Mathematics*, 11(2), 243-251.

Teaching

University of Toronto

ECO481H1F: Special Topics in Economics with Data Analytics: Climate Economics (2024-present)

ECO2450H1S: Structural Approaches to Climate Economics (2025-present)

Princeton University

ECO 363: Corporate Finance (AI, Spring 2022, Spring 2023)

ECO 101: Introduction to Macroeconomics (AI, Spring 2021, Fall 2019)

ECO 301: Intermediate Macroeconomics (AI, Spring 2020)

SPIA Workshop: Data Science and Visualization in Python (Primary Instructor, Spring 2019-2023)

Presentations

"The Distributional Consequences of Climate Change: Housing Wealth, Expectations, and Uncertainty"

Université du Québec à Montréal (Upcoming, 2025), University of Southern California (2025), Duke University (2024), Shanghai University of Finance and Economics (2024), Chinese Economists Society China Annual Conference (2024)

"Continuation Value Is All You Need: A Deep Learning Method for Solving Heterogeneous-Agent Models with Aggregate Uncertainty"

Conference on Machine Learning in Economics (Peking University, 2025), Shanghai Jiaotong University (2025), Shanghai University of Finance and Economics (2025), Federal Reserve Board of Governors (2025), Computing in Economics and Finance Conference, Singapore (2024)

"Automating Reinforcement Learning for Solving Economic Models"

JuliaCon (2022)

Service

Founder and Co-organizer, Toronto Meeting on the Economics of Climate Change (annual, beginning 2025)
Founder and Co-organizer, Climate Economics Seminar Series, University of Toronto (2025-present)

Refereeing

Journal of Urban Economics, *International Journal of Wildland Fire*

Honors, Scholarships, Fellowships, and Grants

International Economics Section Summer Fellowship, Princeton University *2023*

Louis A. Simpson Fellowship, Princeton University *2017–2018*

Languages

English (native), Mandarin Chinese (fluent)

Last updated: September 2025