
Department of Economics
Sam M. Walton College of Business Room 408
University of Arkansas, Fayetteville 72701

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Current Position

Assistant Professor, 2019–current
Department of Economics
Sam M. Walton College of Business
University of Arkansas, Fayetteville

Previous Positions

Graduate Instructor, 2015–2019
Department of Economics, University of Colorado Boulder

Teaching Assistant, 2013–2015
Department of Economics, University of Colorado Boulder

Research Interests

Environmental/Resource Economics, Energy Economics, International Trade

Education

Ph.D. Economics, 2019
University of Colorado Boulder

M.A. Economics, 2015
University of Colorado Boulder

B.A. Economics, 2012
Sogang University, *Summa Cum Laude*

Publications

- 1. Can the Federal Reserve Save the Environment?** with Kyoung-Gon Kim (HNU), *Journal of Cleaner Production* (2023) 423: 138730
- 2. Harmonizing Welfare and Externalities: Unraveling the Product Versus Process Standards Puzzle in Regulatory Policy** with Difei Geng (UARK), *Economics Bulletin* (2023), Volume 43, Issue 3, pages 1320-1327
- 3. Regional Environmental Quality and International Trade: The Role of Production Networks** with Jacob Howard (MITRE) and William Ridley (UIUC), *Forthcoming, Journal of the Association of Environmental and Resource Economists*
- 4. Do Exchange Rates Affect the Environment?** with William Ridley (UIUC), *2nd-round Revision at the Canadian Journal of Economics*

Book Chapter

1. **The Economics of Space Development** (*The Oxford Handbook “The ‘New’ Space Economy”*), with Akhil Rao (Middlebury), *Revision Requested*

Working Papers

1. **Do Competitive Markets Cleanup the US Electricity Sector?: Evidence from the Southwest Power Pool** with Daniel Kaffine (CU Boulder), *Revision Requested at the Energy Journal*
2. **Thirsty for Trade: How Globalization Shapes Virtual Water Trade** with William Ridley (UIUC), *Revision Requested at the Environmental and Resource Economics*
3. **Do Supply Chain Positions and Trade Competitiveness Jointly Matter for Better Air Quality and Carbon Mitigation?**, with William Ridley (UIUC)
4. **Inter-regional Electricity Trade and Welfare Gains: Evidence from ERCOT**, with Scott Holladay and Connor Neff (Univ. of Tennessee)
5. **US Power Grid and Trade** with Daniel Kaffine and Sergey Nigai (CU Boulder)
6. **Wildlife Crossings and Accidents** with Hyunseok Jung and Tandem Young (UARK)

Works in Progress

1. **Environmental Regulation and Firm Networks**, with Scott Holladay (Univ. of Tennessee), Jay Hyun (Univ. of Alberta) and Gueyon Kim (UCSC)
2. **Wildfire Smoke PM_{2.5} Exposure and Roadkill: Evidence from Colorado Counties**, with Daniel Kaffine (CU Boulder)
3. **Wildfire Smoke PM_{2.5} and Virtual Carbon Trade via US Power Grid**, with Daniel Kaffine (CU Boulder)

Others in the Pipeline

1. **Regional Environmental Disparity: A Paradox of Domestic Supply Chains**, with Jacob Howard (MITRE) and William Ridley (UIUC)
2. **Does Paying Our Workers Better Help Improve Air Quality and Mitigate Carbon Emissions?**, with William Ridley (UIUC)
3. **Does Position in GVC Matter?: Trade Liberalization, Exchange Rates, Industrial Heterogeneity and the Environment**, with William Ridley (UIUC)
4. **Optimal Water Rights Allocation in a Large Open Economy**
5. **Market Frictions and Directed Technical Change in an Open Economy**

Referee Service

American Journal of Agricultural Economics; Nature Communications; Oxford Handbook (The “New” Space Economy); Resource and Energy Economics

Advising Service

Allison Vincent (Honors student); Brenna Frandson (Honors student); Tristan Hube (Honors student); Griffin Fulton (Honors student)

Teaching Service

- Graduate

Microeconomic Theory 1 (Ph.D., University of Arkansas)
Fall 2019-2023

Managerial Economics (MBA., University of Arkansas)
Spring 2020, 2021, 2023, 2024

- Undergraduate

Economics of Organizations (University of Arkansas)
Fall 2019-2023

Mathematical Tools for Economists (University of Colorado)
Spring 2016, Fall 2016

Introduction to Statistics with Computer Applications (University of Colorado)
Spring 2015, Fall 2015, Summer 2016, Spring 2018

Intermediate Microeconomics (University of Colorado)
Fall 2017, Fall 2018

Principles of Microeconomics (University of Colorado)
Spring 2014, Fall 2014, Spring 2019

Environmental Economics (University of Colorado)
Spring 2017

International Economics (University of Colorado)
Fall 2013

Fellowships and Awards

- 2017** Richard C. Meckley Graduate Fellowship, CU Boulder
The McGuire Center for International Studies Research Grant, CU Boulder
Travel Grant, CU Boulder
- 2016** Department of Economics TA/RA Fellowship, CU Boulder
- 2015** Yordan Prize of Microeconomic, CU Boulder
- 2012** Albatross Fellowship, Graduate School of Sogang University
- 2011** Dean's List Award, Sogang University
"Top 1 % Honor Award", Sogang University
Scholarship AAA, Sogang University (also in 2007)
- 2010** Scholarship A, Sogang University