

Department of Agricultural Economics  
College of Agriculture and Life Sciences  
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## Current Position

**Assistant Professor**, 2024–current  
Department of Agricultural Economics  
College of Agriculture and Life Sciences  
Texas A&M University, College Station

## Previous Positions

**Assistant Professor**, 2019–2024  
Department of Economics  
Sam M. Walton College of Business  
University of Arkansas, Fayetteville

**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 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. The Economics of Space Development**, with Akhil Rao (Middlebury), *The Oxford Handbook of the New Space Economy* (2025). Oxford University Press, page 72-98, Editor. Anthony P. D'Costa
- 2. Do Competitive Markets Cleanup the US Electricity Sector?: Evidence from the Southwest Power Pool** with Daniel Kaffine (CU Boulder), *The Energy Journal* (2025). <https://doi.org/10.1177/01956574241305584>

**3. Thirsty for Trade: How Globalization Shapes Virtual Water Trade** with William Ridley (UIUC), *Environmental and Resource Economics* (2025). <https://doi.org/10.1007/s10640-024-00928-0>

**4. How Do Exchange Rates Affect the Environment?** with William Ridley (UIUC), *Canadian Journal of Economics/Revue canadienne d'économique* (2025). <https://doi.org/10.1111/caje.12748>

**5. Regional Environmental Quality and International Trade: The Role of Production Networks** with Jacob Howard (MITRE) and William Ridley (UIUC), *Journal of the Association of Environmental and Resource Economists* 11.5 (2024): 1311-1349. <https://doi.org/10.1086/729124>

**6. 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

**7. Can the Federal Reserve Save the Environment?** with Kyoung-Gon Kim (HNU), *Journal of Cleaner Production* (2023) 423: 138730. <https://doi.org/10.1016/j.jclepro.2023.138730>

## Working Papers

**1. When Trade Meets the Sky: How Global Value Chains Shape Industrial Air Pollution**, with William Ridley (UIUC) *R&R at the Review of World Economics*

**2. When Regulation Travels: Supply Chain Disruptions and Environmental Spillovers under the Clean Air Act**, with Scott Holladay (Univ. of Tennessee), Jay Hyun (Univ. of Alberta) and Gueyon Kim (UCSC)

**3. Trade Policy and the Emissions Content of Agricultural Trade**, with Keliang Xiao (UIUC) and William Ridley (UIUC)

**4. Wildfire Smoke Fuels Pollution Emissions in the U.S. Electricity Sector**, with Daniel Kaffine (CU Boulder)

**5. US Power Grid and Trade** with Daniel Kaffine and Sergey Nigai (CU Boulder)

## Referee Service

Accounting Forum; ABACUS; American Journal of Agricultural Economics; Discover Agriculture; Journal of the Agricultural and Applied Economics Association; Journal of Agribusiness in Developing and Emerging Economies; Journal of Industrial Ecology; Economic Modelling; Nature Communications; The Oxford Handbook of the New Space Economy; Resource and Energy Economics

## Research Grants

1. Targeted Proposal Teams (TPT): Collaborative Seed Grants Fall 2025, Accepted (\$59,893)

## Advising Service

### ***Texas A&M University***

Keliang Xiao (Ph.D., UIUC, Department of Agricultural and Consumer Economics)

Taejun Mo (Ph.D., UIUC, Department of Agricultural and Consumer Economics)

Dohoon Kim (Ph.D., TAMU, Department of Hospitality, Hotel Management and Tourism)

Yue Zhang (Ph.D., TAMU, Department of Agricultural Economics)

### ***University of Arkansas, Fayetteville***

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

## **Teaching Service**

### **- Graduate**

*Frontiers in Natural Resource and Environmental Economics (Ph.D., Texas A&M University)*

Spring 2026

*Econometrics for Agribusiness (Master/Ph.D., Texas A&M University)*

Fall 2024-current

*Microeconomic Theory 1 (Ph.D., University of Arkansas)*

Fall 2019-2023

*Managerial Economics (MBA., University of Arkansas)*

Spring 2020, 2021, 2023, 2024

### **- Undergraduate**

*International Trade and Agriculture (Texas A&M University)*

Fall 2025

*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

## Affiliation

Agricultural and Applied Economics Association (AAEA)