

Department of Economics  
University of Oklahoma  
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## EDUCATION

- 2025            Ph.D. Candidate in Economics, University of Oklahoma, Norman, OK  
Committee: Dr. **Joan Hamory** (Chair), Dr. **Jayash Paudel**, Dr. **Tyler Ransom**, and Dr. **Joseph Ripberger**
- 2017            B.A. in Economics and English Literature, Truman State University, Kirksville, MO  
Honors: Magna Cum Laude and Departmental Honors in Economics  
Member: Phi Beta Kappa

## RESEARCH FIELDS

- Primary:        Agricultural Economics, Environment and Ecological Economics  
Secondary:     Development Economics, Public Economics, International Trade

## JOB MARKET PAPER

"Agricultural trade policy and water quality: Evidence from the Mexican Hass Avocado Import Program" (Sole Author), *R&R*

*Abstract:* This paper provides empirical evidence that the 2016 Mexican Hass Avocado Import Program amendment led to improved water quality due to Mexican avocado farmers incorporating cleaner production methods and applying less harmful pesticides to their avocados. Two-way fixed effects difference-in-differences analysis shows that the policy improved surface water quality, reducing biochemical oxygen demand (BOD) by approximately 12 percent and chemical oxygen demand (COD) by 11 percent. Further evidence suggests the amendment led to a 2 percent decrease in nitrate pollution and a nearly 1 percent increase in nitrites - likely stemming from cleaner avocado practices and increased avocado production.

## WORKING PAPERS

"Guaconomics: Avocado Price Shocks and Crime Rates in Mexico" (Sole Author)

*Abstract* Avocado exports from Mexico to the United States have burgeoned since 1997. However, Mexican politicians are increasingly concerned about the recent involvement of drug cartels in avocado production. Using data from 460 Mexican municipalities over the period 1997 to 2019, this paper exploits exogenous weather changes in U.S. avocado production areas to show that increased Mexican avocado producer prices differentially decreased homicide in Mexican municipalities more climatically suited to grow avocados, likely due to increased

agricultural employment. However, there are interesting time heterogeneous effects as a result of the increased presence of drug cartels in the avocado industry. In particular, after the War on Drugs began in 2006, higher prices differentially increased homicide as well as other crime indicators such as property crime and cattle theft.

“Fracking and Tracking: The Effects of Oil and Natural Gas Well Locations on the Housing Market” (with **Brent Norwood**, **Samantha R. Johnson**, and **Ahmed El Fatmaoui**), *Under Review*

*Abstract:* Hydraulic fracturing or “fracking” has made it possible to produce vast new quantities of oil and natural gas causing states such as Colorado, Texas, and Oklahoma to dramatically increase their number of oil and natural gas wells. Using data from the U.S. Department of Homeland Security and Zillow’s ZTRAX, we estimate the effect of hydraulically fractured oil and natural gas well sites on both urban and rural residential home prices between 2000 and 2018. Utilizing ArcGIS, we create varying buffer zone sizes around well sites to explore how average home prices change before and after a well opens and apply a ZIP code-level fixed effects model, a household-level fixed effects model, a repeat sales model, and a spatial differences-in-differences (SDID) approach. Our results show that homes within 0.5 miles of a well have a 4.5% increase in selling price and homes between 0.5-1 mile of a well see a 2.5% increase in selling price compared to properties located more than 2 miles away from a well.

## **WORKS IN PROGRESS**

- 2024 “The Effects of Unbalanced FDI Inflow from Trade on the Gender Wage Gap in Mexico” (Sole Author)
- 2024 “Fair for All Sizes? The Impacts of Wayfair on Small to Medium Sized Retail Firms’ Sales and Sales Tax ” (Sole Author)
- 2024 “Fracking and Water Contamination in Oklahoma” (With **Brent Norwood** and **Ahmed Fatmaoui**)
- 2024 “Impact of Groundwater Quality on Infant Health: An Event Study in Mexico” (Sole Author)

## **PRESENTATIONS**

- 2025 *Forthcoming* - Allied Social Science Association in San Francisco, CA (January)
- 2024 Southern Economic Association in Washington D.C. (November)
- Missouri Valley Economic Association in Kansas City, MO (October)
- OU Ph.D. Economics Conference, Norman, OK (May)
- 2023 Southern Economic Association in New Orleans, LA (November)

## FELLOWSHIPS AND AWARDS

- 2024 Alex Kondonassis Development Award Winner, University of Oklahoma  
Dodge Family College of Arts and Sciences Dissertation Completion Fellowship,  
University of Oklahoma
- 2023 Roberson Research and Travel Grant, University of Oklahoma
- 2022 Chong Liew Summer Research Award, University of Oklahoma
- 2021 Chong Liew Outstanding 1st Year Graduate Student Award, University of  
Oklahoma
- 2021 Bridwell Institute's Graduate Economic Freedom Index Colloquium Grant,  
Southern Methodist University

## TEACHING EXPERIENCE

### Instructor

- 2024 (Spring) Principles of Economics-Macro (ECON 1113-995), University of  
Oklahoma  
(Spring) Principles of Economics-Macro (ECON 1113-795), University of  
Oklahoma - For Concurrent High School Students
- 2023 (Fall) Principles of Economics-Micro (ECON 1113-995), University of Oklahoma  
(Fall) Principles of Economics-Micro (ECON 1113-795), University of Oklahoma  
- For Concurrent High School Students  
(Summer) Government Relations-Business (ECON 3713), University of  
Oklahoma
- 2022 (Fall) Elements of Statistics (ECON 2843), University of Oklahoma  
(Summer) Principles of Economics-Micro (ECON 1123), University of Oklahoma

### Graduate Teaching Assistant

- 2020-Present Econometric Analysis (ECON 4223), International Trade (ECON 3613), Labor  
Economics (ECON 3513), Health Economics (ECON 3523), Elements of  
Statistics (ECON 2843), Principles of Economics-Micro (ECON 1123)

## SKILLS

- Coding: R (4 years), Stata (4 Year),  $\text{\LaTeX}$ (4 years), Julia (3 years), ArcGIS Pro (3 years),  
Git(2 years), Python (2 years), SQL (1 year), Office (15+ years)
- Econometric: Difference-in-differences (Goodman and Bacon (2021), Callaway and Sant'Anna  
(2021), Sun and Abraham (2021)), count modeling, structural modeling,  
machine learning, discrete choice modeling
- Other: Big data analytics, web scraping, web design
- Languages: English (Native), Spanish (Advanced)

## **SERVICES**

2024 Academic Appeals Board Member for the University of Oklahoma  
2023 Session Moderator at the Southern Economics Association Conference  
2022 Graduate Student Senate Economics Department Representative  
2012-2017 Alpha Phi Omega Member - 500 Hours of Community Service

## **REFERENCES**

### **Joan Hamory**

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### **Greg Burge**

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