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Education

PhD Economics (ongoing) , University of Texas at Austin, USA.	(expected) 2025
M.Sc. Politics, Economics and Philosophy , University of Hamburg, Germany.	2019
B.Sc. Mathematics and Economics , University of Mannheim, Germany.	2016

References

Cody Tuttle
Department of Economics, University of Texas at Austin
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Scott Carrell
Department of Economics, University of Texas at Austin
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Stephen J. Trejo
Department of Economics, University of Texas at Austin
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Research

Job Market Paper

"The Effect of Air Pollution on Mortality: Evidence from Wildfire Smoke in Mexico"

Wildfires produce large amounts of air pollution via smoke, which can travel far beyond the original fire location. This paper studies the causal effect of wildfire smoke exposure on mortality in Mexico. I merge satellite image data on wildfire smoke plumes with administrative death records and leverage high-frequency variation in smoke exposure within municipalities over time. Using data from air pollution monitors, I show that wildfire smoke over a municipality increases $PM_{2.5}$ air pollution by 11%. At the same time, mortality increases by 1.87 deaths per million on the day of smoke, and by an additional 1.69 deaths per million over the next three days. The mortality effects are concentrated among individuals over 60 years old, with the largest effects for those over 80 and no effects for those below 50. The main effect on short-term mortality in Mexico is high compared to prior studies in developed countries. Within Mexico, the effects are also larger for individuals in poorer municipalities. Overall, this paper provides new evidence on short-term mortality effects of wildfire smoke across all age groups in Mexico, and suggests key heterogeneity in the harms of air pollution by income.

Work in Progress

Air Pollution and Infant Health: Evidence from Wildfire Smoke in Mexico

The Effect of Negative Wealth Shocks on Employment: Evidence from Tornadoes

Teaching Experience**Teaching Assistant:**

University of Texas at Austin:

MBA Managerial Microeconomics (Prof. Hatfield)	2021-2024
Empirical Public Economics (Prof. Sibley)	2021
Introduction to Econometrics (Prof. Schneider)	2020
Introduction to Economics (Prof. Showalter)	2020
Introduction to Macroeconomics (Prof. Mostashari)	2020
Economic Statistics (Prof. Bencivenga)	2019

University of Hamburg:

Social Choice and Welfare (Prof. Gerber)	2018
Ethics (Prof. Braham)	2018

Honors and Awards

Bruton Fellow	2022
Second Year Paper Award for "The Effect of Wildfire Smoke on Mortality: Evidence from Mexico"	2020
German Academic Exchange Service (DAAD) stipend recipient.	2014

Academic Work

Student Assistant at CliSAP (Integrated Climate System Analysis and Prediction), University of Hamburg.

April 2017 - March 2019

Summer Internship at Banco de México

July 2022 - August 2022

Programming Languages

Proficient in Stata, LaTeX, Matlab, Python

Familiar with C, R, Java, ArcGIS.