YIXIN CHEN

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INTERESTS

Labor Economics, Environmental Economics, Applied Econometrics, Accounting

APPOINTMENT

New Mexico Institute of Mining and Technology   Socorro, NM
Postdoctoral Research Associate, Business and Technology Management   07/2024 - 08/2025
- Position mainly funded by the USDA NIFA AFRI grant "Addressing agricultural drought in the New Mexico High Plains through soil & groundwater management and climate adaptation," and the NSF Civic Innovation Challenge CIVIC-PG Track A grant "Integrating remote sensing data, analytics, and carbon credits to develop pathways for environmental and economic sustainability in drought-stressed communities"
- **Research Areas:** Environmental Economics in Agriculture

EDUCATION

University of California, Santa Barbara   Santa Barbara, CA
Ph.D., Economics   06/2024
Committee: Kelly Bedard (Chair), Heather Royer, Gonzalo Vazquez-Bare
M.A., Economics   09/2019

University of California, San Diego   La Jolla, CA
B.S., Joint Mathematics-Economics; Minor, Accounting; *magna cum laude*   06/2018

REFERENCES

Kelly Bedard
Professor of Economics
UC Santa Barbara
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Heather Royer
Professor of Economics
UC Santa Barbara
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Gonzalo Vazquez-Bare
Associate Professor of Economics
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Haoying Wang
Associate Professor of Management
New Mexico Tech
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CERTIFICATIONS

Candidate for the Uniform CPA Exam, California Board of Accountancy
- Completed all 150 semester units (= 225 quarter units) of the educational requirements
Certificate in Inclusive Teaching, UC Santa Barbara   2024

RESEARCH

"Female Officers and the Discovery of Domestic Violence" (*Job Market Paper*)
Abstract: Domestic violence (DV) is a crime that usually has female victims and is often under-reported. This paper studies the effect of having a female officer dispatched in the primary unit on the discovery of DV in physical abuse incidents in Milwaukee and Chicago. Using three-year calls for service data and conditional random assignment of officers in the dispatch process, the paper finds that the existence of a female officer in the primary unit scales up the likelihood of discovering DV in physical abuse incidents by 10% in Milwaukee. Analysis of data from Chicago indicates a similar effect. These results indicate that female officers play an important role in discovering DV.

"College Basketball Game Day and Sexual Assault" (*with Dingyue Liu, Working Paper*)
Abstract: Basketball games are an important part of college identity and social activities. This paper studies the effect of college basketball game days on the probability of having local sexual assault reports. Using crime data from universities with top basketball programs and local law enforcement agencies, this paper shows that home game days have little effect on the probability of sexual assault reports, while away game days scale up the probability by 14%. This finding is different from those found for football, which likely reflects differences in viewing and partying behavior across the two sports.

"School Lunch and Nutrition" (*Working Paper*)
Abstract: School lunch is an important channel of students' nutrition intake. This paper studies the potential mechanisms for effects of the Healthy, Hunger-Free Kids Act using metabolic analysis. Using data from the National Health and Nutrition Examination Survey, the paper finds that this policy decreased the probability of having high total cholesterol by about 30% for students who usually eat school lunches. This result is largely driven by the significant decrease in the proportion of students with high LDL cholesterol and triglycerides. The results reported in the paper show the powerful impact of this policy on adolescent health.

"Weather Modification and Local Climate Management in the United States: A Review of Its Technological Evolution, Operations, Governance, and Local Implementation Challenges" (*with Haoying Wang, Working Paper, Submitted at Climate*)
Abstract: Weather modification has gained significant and growing interest in the United States (US) in recent years. The trend can be largely attributed to the changing climate, persistent droughts, and other extreme weather events that have been experienced across various regions of the US. This paper provides a critical review of weather modification program costs, benefits, and governance to help shed light on policymaking and program management associated with the growing interest in adopting weather modification as a local climate management strategy in the US. Additionally, to deepen our understanding of the widely concerning issues, such as the financial burden on taxpayers and potential environmental risks, the paper explored the local implementation challenges and common environmental and health concerns related to weather modification activities. A synthesis of literature and policy debates suggests three general conclusions: (1) The need for weather modification programs is expected to keep growing, though regional variations may exist due to regulatory and other local factors; (2) state-level and local support, including financial resources, will be important for program development in the foreseeable future; and (3) technological advancements will be critical for addressing many of the project operation efficiency challenges and environmental and public health concerns related to weather modification programs. More specifically for program governance and local implementation, aspects such as project planning (including resource pooling), risk and liability management, communication and reporting, outcome measurability, and stakeholder engagement are indispensable for addressing issues related to program legality, public acceptance, and sustainability.

"Grassland Carbon Credit: Demand, Supply, and Its Climate Adaptation and Economic Decarbonization Potential" (*with Haoying Wang, Work in Progress*)

"The Potential of Using Treated Produced Water from Oil and Natural Gas Production in Agricultural Irrigation: A Review" (*with Haoying Wang, Work in Progress*)

"An Overview of the Bioeconomy Value Chain: Concepts, Characteristics, Analytical Approaches, and Applications" (*with Haoying Wang, Work in Progress*)

PROFESSIONAL ACTIVITIES

Referee at *Resources Policy*

Abstract titled **"Inferring the Navajo Nation's Crop Acreage and Irrigation Water Demand with Remote Sensing Data and Statistical Models"** (*with Haoying Wang, George Frisvold*) accepted at the 2025 North American Meetings of the Regional Science Council International

Presentations:

- UCSB Applied Microeconomics Lunch Seminar   2023

- UCSB Economics Department Seminar   2023

- All-California Labor Economics Conference (poster)   2023

TEACHING EXPERIENCE

UC Santa Barbara
Teaching Assistant, Department of Economics   2018-2024

Principles of Microeconomics	Fall 2018, Winter 2019, Spring 2020, Fall 2022
Intermediate Microeconomic Theory I	Spring 2019, Fall 2019, Winter 2020
	Fall 2021, Fall 2023
Intermediate Microeconomic Theory II	Winter 2022, Spring 2022
Intermediate Macroeconomic Theory	Winter 2023, Spring 2023, Winter 2024, Spring 2024
Introduction to Econometrics I	Fall 2020, Winter 2021, Spring 2021

AWARDS AND GRANTS

Individualized Professional Skills Grant, UC Santa Barbara	2023
International Doctoral Recruitment Fellowship, UC Santa Barbara	2019-2022
Phi Beta Kappa, UC San Diego	2018
Magna Cum Laude (top 2%-6% in the graduating class of 7,445), UC San Diego	2018
Thurgood Marshall College Honors Program, UC San Diego	2017-2018
Provost's Honors, UC San Diego	2014-2018

SERVICE

Grassland Carbon Credit Workshop at Portales, NM	2025
N4WPP Water Symposium at Diné College, NM	2024
Leadership Team of We are Economics at Santa Barbara, UC Santa Barbara	2023-2024
Phi Beta Kappa Election Committee, UC Santa Barbara	2020-2023

SKILLS

Expertise: Using econometric methods to analyze large data sets and study economic questions

Methodologies: Difference in Differences, Instrumental Variables, Regression Discontinuity, Quasi-Experimental Design

Software: R, Stata, Matlab, LaTeX, Python, Tableau

Language: English (Proficient), Chinese (Native)