

# Quan Qi

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## EDUCATION

Ph.D. in Economics (3.85/4), University at Albany, State University of New York (SUNY)	2025
M.A. in Applied Economics (3.9/4), Central South University	2019
B.A. in Economics <i>with the highest honor</i> , Huazhong Agricultural University	2016

## RESEARCH FIELD

Primary field: Health Economics, Labor Economics  
Secondary field: International Trade, Environmental Health

## PUBLICATIONS

(# indicates equal contribution and co-first author)

- Shao Lin<sup>#</sup>, **Quan Qi**<sup>#</sup>, Han Liu, Xinlei Deng, Ian Trees, Xiaojun Yuan, and Mary P. Galant (2024). The Joint Effects of Thunderstorms and Power Outages on Respiratory-related Emergency Visits and Modifying and Mediating Factors of This Relationship. *Environmental Health Perspectives*, 132(6):67002.
- **Quan Qi**, Fangqun Yu, Arshad A. Nair, Sam S. S. Lau, Gan Luo, Imran Mithu, Wangjian Zhang, Sean Li, and Shao Lin (2024). Hidden Danger: The Long-term Effect of Ultrafine Particles on Mortality and Its Sociodemographic Disparities. *Journal of Hazardous Materials*, 134317.
- Shao Lin<sup>#</sup>, Yukang Xue<sup>#</sup>, Sathvik Thandra, **Quan Qi**, Philip K. Hopke, Sally W. Thurston, Daniel P. Croft, Mark J. Utell, David Q. Rich (2024).  $PM_{2.5}$  and Its Components and Respiratory Disease Healthcare Encounters - Unanticipated Increased Exposure-response Relationships in Recent Years After Environmental Policies. *Environmental Pollution*, 124585
- Shao Lin, Han Liu, **Quan Qi**, Ian Trees, Donghong Gao, Samantha Friedman, Xiaobo Romeiko Xue, and David Lawrence (2024). Tracking Temporal Variations of Fatality and Symptomology Correlated with COVID-19 Dominant Variants and Vaccine Effectiveness in the United States. *Frontiers in Public Health*, 12: 1419886.
- Arshad A. Nair, Shao Lin, Gan Luo, Ian Ryan, **Quan Qi**, Xinlei Deng, Fangqun Yu (2023). Environmental Exposure Disparities in Ultrafine Particles and  $PM_{2.5}$  by Urbanicity and Sociodemographics in New York State, 2013-2020. *Environmental Research*, 239: 117246.

## WORKING PAPERS

- The Impacts of TRAP Laws on the Supply of Maternal Care Providers, with Pinka Chatterji and Chun-Yu Ho (Job Market Paper)
- Import Competition and Racial Disparities in Mortality: Evidence from the Japanese Trade Shock, with Pinka Chatterji and Chun-Yu Ho *Health Economics, Revision Requested*

## WORKING IN PROGRESS

- Geographic and Racial/Ethnic Disparities in the Density of Maternal Health Care Providers, with Pinka Chatterji, Chun-Yu Ho, David Strogatz, and Anne M. Gadowski
- Medicare Part D and Retirement Lock (Third-year paper)
- Predicting Health Risk for Cardiovascular Diseases Based on Individual, Social, Community and Local Environmental Factors Using Machine Learning Methods, with Shao Lin

## RESEARCH EXPERIENCE

- **Research Assistant**, Principal Investigator (PI): Pinka Chatterji (Department of Economics) and Kate Strully (Department of Sociology), National Institutes of Health (NIH), “Effects of Medicaid Expansions on Infant Health Among Native Americans” 2024
- **Research Assistant**, PI: Chun-Yu Ho (Department of Economics), NIH, “Effect of Losing Hospital-based Obstetric Services on Maternal Health in Rural Communities” 2022-present
- **Research Assistant and Grant Coordinator**, PI: Shao Lin (School of Public Health), NIH, “Weather Extremes, Natural Disasters, and Health Outcomes among Vulnerable Older Adults: New Improvements on Exposure Assessment, Disparity Identification, and Risk Communication Strategies”, 2022-2026 (USD \$1,579,921) 2022-present
- **Research Assistant and Grant Coordinator**, PI: Fangqun Yu (Atmospheric Sciences Research Center) and Shao Lin (School of Public Health), New York State Energy Research and Development Authority, “Evaluating Short-/Long-term Impacts and Exposure Sources of Ultrafine Particles on Multiple Health Outcomes in New York State by Using High-Resolution Pollutant Simulations”, 2019-2024 (USD \$609,851) 2021-2024
- **Research Assistant and Grant Coordinator**, PI: Hua Yin (School of Business, Central South University), National Social Science Fund of China, “Mechanism Analysis on Resolving Excess Capacity from Demand and Supply Sides for China’s Machinery Manufacturing Industry in ‘The Belt and Road’ Strategy”, 2016-2021 (CNY ¥250,000) 2016-2019

## CONFERENCES AND WORKSHOPS

The Impacts of TRAP Laws on the Supply of Maternal Care Providers, with Pinka Chatterji and Chun-Yu Ho

- Allied Social Science Associations Annual Meeting, San Francisco, CA (scheduled) 2025
- Southern Economic Conference Annual Meeting, Washington, DC (scheduled) 2024
- Association for Public Policy Analysis and Management Research Conference, National

Harbor, MD (scheduled)	2024
Import Competition and Racial Disparities in Mortality: Evidence from the Japanese Trade Shock, with Pinka Chatterji and Chun-Yu Ho	
• American Society of Health Economists Annual Meeting, San Diego, CA	2024
• Annual Meetings of the Midwest Economics Association, Chicago, IL	2024
• Eastern Economic Association Conference, Boston, MA	2024
Individual Effects and Interactions Between Ultrafine Particles and Extreme Temperatures on Hospital Admissions of High Burden Diseases, with Najm A. Madani, Yukang Xue, Randy Tanggang, Fangqun Yu, Arshad A. Nair, Gan Luo, Isa Brackett, and Shao Lin	
• Association for Public Policy Analysis and Management Research Conference, National Harbor, MD	2024
• National Atmospheric Deposition Program Conference, Duluth, MN	2024
• International Society for Environmental Epidemiology Conference, Athens, Greece	2022
• International Society of Biometeorology Conference (Virtual)	2021
Ultrafine Particle Concentration and Pregnancy Complications, with Fangqun Yu, Arshad A. Nair, Gan Luo, Imran Mithu, Liqiong Guo, Angelena Campisi and Shao Lin	
• International Conference on Air Quality, Helsinki, Finland	2024
Hidden Danger: the Long-term Effect of Ultrafine Particles on Mortality and Its Sociodemographic Disparities, with Fangqun Yu, Arshad A. Nair, Sam S. S. Lau, Gan Luo, Imran Mithu, Wangjian Zhang, Sean Li, and Shao Lin	
• American Society of Health Economists Annual Meeting, St. Louis, MO	2023
• American Public Health Association Annual Meeting, Atlanta, GA	2023
Environmental Exposures to Extreme Weather, Natural Disasters, and Ultrafine Particles and Multiple Health Outcomes among Aging Population, with Shao Lin, Imran Mithu, Arshad A. Nair, Ian Tree, Xinlei Deng, Gan Luo and Fangqun Yu (Keynote presentation)	
• Aging and Rejuvenation Conference, Frankfurt, Germany	2023
Medicare Part D and Retirement Lock	
• The 3rd and 4th Year Ph.D. Women's Workshop, Women in Economics Organization, Boston University (Virtual)	2021
• Mentoring Workshop for 3rd Year + Women & Non-Binary Ph.D. Students in Economics & Economics-Adjacent Fields, AEA-CSWEP (Virtual)	2021
How Does the Belt and Road Initiative Affect China's Total Factor Productivity, with Hua Yin	
• National University International Trade Discipline Coordination Group Meeting and China International Trade Discipline Development Forum, Beijing, China	2018

## **TEACHING EXPERIENCE**

### **Instructor, Department of Economics, University at Albany**

AECO 300: Intermediate Microeconomics	Summer 2024
AECO 110: Principle of Microeconomics (Guest Instructor)	Spring 2024

AECO 330: Economic of Development	Winter 2024
AECO 360: International Economic Relations	Summer 2023

**Guest Instructor, School of Public Health, University at Albany**

HEPI 630: Global Perspectives in Epidemiology (Graduate)	Spring 2024
HEHS 545: Global Climate Change, Extreme Weather and Public Health (Graduate)	Spring 2023

**Teaching Assistant, Department of Economics, University at Albany**

AECO 700: Microeconomics II (Ph.D.-level)	Spring 2022, Spring 2021
AECO 701: Macroeconomics II (Ph.D.-level)	Spring 2021
AECO 610: Mathematical Economics (Ph.D.-level)	Fall 2021, Fall 2020
AECO 510: Mathematical Economics (Graduate)	Spring 2020
AECO 455/530: Public Finance	Spring 2020
AECO 445/545: International Trade	Fall 2020, Spring 2020
AECO 300: Intermediate Microeconomics	Fall 2020
AECO 350: Money and Banking	Fall 2019

**HONORS AND SCHOLARSHIPS**

The Karen R. Hitchcock New Frontiers Fund, Initiatives for Women, USD\$700	2024
SUNY Research Foundation Travel Grant, USD\$3,900	2023
Center for Aging and Policy Studies (CAPS) Travel Grant, USD\$1,500	2022
The Karen R. Hitchcock New Frontiers Fund, Initiatives for Women, USD\$1,000	2022
Pong Lee Award for Excellence of Third-year Paper in Economics, University at Albany	2022
Highest Academic Performance on Preliminary Exams in Economics, University at Albany	2020
Graduate Assistantship, University at Albany	2019-2022
First Class Scholarship, Central South University	2016-2018
Outstanding Graduates, Huazhong Agricultural University	2016
Excellent Project Award, PI for University-funded Research Project (Project No.: 2014080)	2015
Honorable Mention, International Mathematical Contest in Modeling (MCM)	2015
National Encouragement Scholarship in China	2015
Second Prize, China Undergraduate Mathematical Contest in Modeling	2014
National Scholarship in China	2013-2014

**ACADEMIC SERVICE**

**Referee:** *Human and Ecological Risk Assessment: An International Journal*

**MEDIA COVERAGE**

“UAlbany Study Examines Impact of Exposure to Ultrafine Particles on Mortality in New York”, University at Albany News and Medical Xpress. July 31 2024

“UAlbany Study: Joint Effects of Thunderstorms and Power Outages Increase Respiratory-Related Emergency Department Visits”, University at Albany News. July 31 2024

## **OTHER SERVICE**

**Youth Representative:** The 2nd International Youth Forum on Creativity and Heritage along the Silk Roads, co-organized by United Nations Educational, Scientific and Cultural Organization (UNESCO) and the China National Commission for UNESCO 2018

**Secretary and Research Assistant:** Open Economy Research and Development Center, School of Business, Central South University 2017-2018

## **SKILLS**

**Software:** Stata, R, Latex, ArcGIS, Python, Matlab, SAS, SPSS

### **Training:**

- Shift-Share IV (Instructor: Peter Hull), Mixtape session Oct. 17, 19 2023
- Frontiers in DID (Instructor: Brantley Callaway), Mixtape session Sep. 25, 27 2023
- Causal Inference Workshop (Instructor: Scott Cunningham), Center for Aging and Policy Studies May 17-19 2022
- Machine Learning & Causal Inference (Instructors: Susan Athey, Jann Spiess, Stefan Wager), Stanford Graduate School of Business (Self-paced video course)

**Language:** English (Fluent), Chinese (Native)

## **REFERENCES**

### **Pinka Chatterji**

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### **Chun-Yu Ho**

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## **PLACEMENT COMMITTEE**

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