# JINJING CHEN

Ph.D. in Economics – University of Melbourne

## CONTACT INFORMATION


Ph.D. Candidate

Phone Number: +61 0481326599

Email: jinjingc2@unimelb.edu.au

University of Melbourne

Department of Economics

Level 3, 111 Barry Street Parkville VIC 3053 Australia


## EDUCATION

**University of Melbourne** Feb. 2022 - Present
Ph.D. Economics
Supervisors: Dr. Leslie Martin, Dr. Sebastian Tebbe, Dr. Kathryn Baragwanath

**National Taiwan University** Sep. 2019 – June 2021
Master of Science, Agricultural Economics

**Huazhong Agricultural University** Sep. 2015 – June 2019
Bachelor of Commerce, Economics

**Chinese Cultural University** Sep. 2017 – Jan. 2018
Exchange Student, Economics

## RESEARCH INTERESTS

Environmental/Energy Economics, Transportation Economics, Remote Sensing

## WORKS IN PROGRESS

**Title:** *Anticipation Effects in Vehicle Markets: Evidence from Swedish Feebate Systems (with Sebastian Tebbe and Stephanie Weber)* Presented at TWEEDS 2025, Camp Resources Workshop, Front Range Workshop, Monash Environmental Economics Workshop 2025.

**Title:** *The Heterogeneous Environmental Benefits of Electric Vehicles in China (with Leslie Martin)* Presented at Monash University Energy Camp.

**Title:** *Quantifying the Real Pollution Exposures caused by Crop-Residue Burning in Indian and Pakistan Punjab (with Kathryn Baragwanath and Fatiq Nadeem)*

**Title:** *Assessing the Impact of Crop-Residue Burning on Traffic Accidents: Evidence from Punjab, Pakistan (Job Market Paper)*

# ACADEMIC EXPERIENCE

**Research Assistant** for Dr. Kathryn Baragwanath — *"Playing with Fire: The Environmental Consequences of an Electorally Motivated License to Burn"* (Oct. 2024 – Jul. 2025)

- Modelled and visualized fire dispersion paths, and calculated fire exposure in Python and R using the HYSPLIT model with high-performance computing.
- Structured and organized spatial data into standardized, research-ready formats

**Research Assistant** for LSE International Growth Centre— *"Refining Punjab Government's Detection of Crop fires"* (Sep. 2025 –Present)

- Utilize high-temporal and multispectral satellite data (Sentinel-2, PlanetScope, VIIRS) to develop and validate machine-learning models for crop-residue burning detection.
- Apply remote sensing analytics, spectral index design, Google Earth Engine, cloud computing and HPC-enabled batch processing to improve the accuracy and scalability of the Punjab government's fire monitoring system.

# GRANT

Google cloud research grand $1000 USD Jan 29th, 2026

# TEACHING EXPERIENCE

ECON20002 Intermediate Microeconomics 2023S1, 2024S1, 2025S1

ECON10003 Introductory Macroeconomics 2022S2, 2023S1-S2, 2024S2

ECON10004 Introductory Microeconomics 2024S1-S2, 2025S1-S2

ECON3001 Environmental Economics 2024S2

# SKILLS

Languages: Chinese (native), English (fluent)

Programming & Software: Python, R, Stata, Google Earth Engine (advanced);

MATLAB, Linux, HPC, Google cloud (intermediate); QGIS, LaTeX (advanced)

Modelling: HYSPLIT atmospheric transport