

# JINJING CHEN

Ph.D. in Economics – University of Melbourne

## CONTACT INFORMATION

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Ph.D. Candidate	University of Melbourne
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## EDUCATION

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<b>University of Melbourne</b> Ph.D. Economics Supervisors: Dr. Leslie Martin, Dr. Sebastian Tebbe, Dr. Kathryn Baragwanath	Feb. 2022 - Present
<b>National Taiwan University</b> Master of Science, Agricultural Economics	Sep. 2019 – June 2021
<b>Huazhong Agricultural University</b> Bachelor of Commerce, Economics	Sep. 2015 – June 2019
<b>Chinese Cultural University</b> Exchange Student, Economics	Sep. 2017 – Jan. 2018

## RESEARCH INTERESTS

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Environmental/Energy Economics, Transportation Economics, remote

## WORKS IN PROGRESS

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**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

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**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

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Google cloud research grant \$1000 USD

Jan 29<sup>th</sup>, 2026

## TEACHING EXPERIENCE

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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

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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