

**Zhan Wang**

Department of Food and Resource Economics, University of Copenhagen

Rolighedsvej 23, 1958 Frederiksberg C, Denmark

zhan@ifro.ku.dk | <https://wangzhan90.com>**Research Interests**

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Global, national and gridded impacts (e.g. international trade, climate change, transportation infrastructure) on the agriculture-land-environment system with general / partial equilibrium models and geospatial data; innovative approaches to facilitate economic education.

**Education**

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Ph.D. in Agricultural Economics, Purdue University, USA	Aug 2018 – Jul 2023
Master of Environmental Management, Duke University, USA	Aug 2012 – May 2014
Bachelor of Science in Environmental Science	Sep 2008 – Jul 2012
Bachelor of Science in Psychology (Dual degree)	Sep 2009 – Jul 2012
Peking University, China	

**Professional Experience**

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Assistant Professor Department of Food and Resource Economics University of Copenhagen, Denmark	Aug 2025 – Present
Post-Doctoral Research Associate Department of Agricultural Economics, Purdue University, USA	Aug 2023 – Jun 2025
Graduate Research Assistant Department of Agricultural Economics, Purdue University, USA	Aug 2018 – Jul 2023
Research Assistant Global Health Research Center, Duke Kunshan University, China	Dec 2014 – Apr 2017

**Publications**

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**Peer-reviewed Journal Articles**

1. **Wang, Zhan.** "GTAP-SIMPLE-G: Integrating Gridded Land Use, Crop Production and Environment Impacts into Global General Equilibrium Model of Trade." *Journal of Global Economic Analysis* 9, no. 2 (2024): 1-69. <https://doi.org/10.21642/JGEA.090201AF>
2. **Wang, Zhan\***, Geraldo B. Martha Jr, Jing Liu, Cicero Z. Lima, and Thomas W. Hertel. "Planned expansion of transportation infrastructure in Brazil has implications for the pattern of agricultural production and carbon emissions." *Science of The Total Environment* 928 (2024): 172434. <https://doi.org/10.1016/j.scitotenv.2024.172434>
3. **Wang, Zhan**, and Thomas W. Hertel. "SMART Handout: An Innovative Tool to Empower Applied General Equilibrium Teaching." *Journal of Global Economic Analysis* 9, no. 1 (2024): 45-61. <https://doi.org/10.21642/JGEA.090102AF>

4. Xiong, Shangzhi, Gangjiao Zhu, Rahul Malhotra, Xinyue Chen, Enying Gong, **Zhan Wang**, Jian'An Zhang et al. "Community efficacy for non-communicable disease management (COEN): Conceptualization and measurement." *PLOS Global Public Health* 4, no. 8 (2024): e0003549. <https://doi.org/10.1371/journal.pgph.0003549>
5. Zhu, Gangjiao, Rahul Malhotra, Shangzhi Xiong, Xinyue Chen, Mingyang Zhang, You Wu, Enying Gong, **Zhan Wang**, Xiangyang Tian, Weixia Peng, Truls Østbye, and Lijing L Yan. "Community Efficacy for Non-Communicable Disease Management and Medication Adherence: The Sequential Mediating Role of Self-Efficacy and Depressive Symptoms." *Patient preference and adherence* (2023): 3421-3433. <https://doi.org/10.2147/PPA.S436419>
6. Chen, Shu, Lei Guo, **Zhan Wang**, Wenhui Mao, Yanfeng Ge, Xiaohua Ying, Jing Fang et al. "Current situation and progress toward the 2030 health-related Sustainable Development Goals in China: A systematic analysis." *PLoS medicine* 16, no. 11 (2019). <https://doi.org/10.1371/journal.pmed.1002975>
7. Li, Niying, **Zhan Wang**<sup>\*</sup>, and Keith Dear. "Violence against health professionals and facilities in China: evidence from criminal litigation records." *Journal of forensic and legal medicine* 67 (2019): 1-6. <https://doi.org/10.1016/j.jflm.2019.07.006>
8. **Wang, Zhan**, Enying Gong, Weixia Peng, Jiaying Chen, Xiangyang Tian, Shangzhi Xiong, and Lijing Yan<sup>\*</sup>. "Community empowerment for the prevention and control of non-communicable diseases." (in Chinese) *Chinese General Practice* 22, no. 10 (2019): 1153.
9. **Wang, Zhan**, Niying Li<sup>\*</sup>, Mengsi Jiang, Keith Dear, and Chee-Ruey Hsieh. "Records of medical malpractice litigation: a potential indicator of health-care quality in China." *Bulletin of the World Health Organization* 95, no. 6 (2017): 430. <https://doi.org/10.2471/BLT.16.179143>
10. **Wang, Zhan**, and Keith Dear<sup>\*</sup>. "Region and firm level determinants of environmental regulation violations: An empirical study in Chongqing, China." *Journal of cleaner production* 141 (2017): 1011-1022. <https://doi.org/10.1016/j.jclepro.2016.09.090>
11. Liu, Feifei, Lijing Yan, **Zhan Wang**, Yuanan Lu, Yuanyuan Chu, Xiangyu Li, Yisi Liu, Dongsheng Rui, Shaofa Nie, and Hao Xiang<sup>\*</sup>. "Metformin therapy and risk of colorectal adenomas and colorectal cancer in type 2 diabetes mellitus patients: A systematic review and meta-analysis." *Oncotarget* 8, no. 9 (2017): 16017. <https://doi.org/10.18632/oncotarget.13762>

### Conference proceedings

1. Haqiqi, Iman, **Zhan Wang**, Srabashi Ray, Uris Baldos, Jing Liu, and Thomas Hertel. "Market-Mediated Effects: What Are they? And why are They Important for Geospatial Analysis of Sustainability Policies." *I-GUIDE Forum 2023 - Harnessing the Geospatial Data Revolution for Sustainability Solutions* (2023). <https://doi.org/10.5703/1288284317682>
2. Fraysse, Elizabeth A., Thomas W. Hertel, **Zhan Wang**, and Iman Haqiqi. "SIMPLE-G In the Classroom and the Cloud." *I-GUIDE Forum 2023 - Harnessing the Geospatial Data Revolution for Sustainability Solutions* (2023). <https://doi.org/10.5703/1288284317668>

## Commentary

1. Dear, Keith\*, and **Zhan Wang**. "Climate and health: mortality attributable to heat and cold." *The Lancet* 386, no. 9991 (2015): 320-322. [https://doi.org/10.1016/S0140-6736\(15\)60897-2](https://doi.org/10.1016/S0140-6736(15)60897-2)

## Book chapters

1. **Wang, Zhan**. "Chapter 15: The Role of Transportation Infrastructure Expansion in the Transmission of Global Price Shocks to the Brazilian Economy." in *SIMPLE-G: A Gridded Economic Approach to Sustainability Analysis of the Earth's Land and Water Resources*. Haqiqi and Hertel (eds). Springer Publishing, 2024. <https://link.springer.com/book/10.1007/978-3-031-68054-0>
2. **Wang, Zhan**, Jiwei Chen, Yujiao Jiang, Yunyi Li, Lina Song, Yuanqing Zhu, Jialiang Liang. "The life condition of ecological migrants in Ordos, Inner Mongolia." in *Environment Watch: The fifth anniversary collection of students' social practices from the College of Environmental Science and Engineering, Peking University (in Chinese)*, The editorial board of social practices from the College of Environmental Science and Engineering, Peking University (eds). The Publishing House of Electronics Industry, 2013.

## Teaching Experience

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### Teaching assistant

AGEC618 (PhD level) "Applied General Equilibrium Analysis" 2023  
Purdue University

### Instructor

Short Course in Multi-scale Analysis of Sustainability 2022, 2024  
Purdue University

### Statistics Lab instructor

Biostatistics and Epidemiology for Global Health (Master level) 2015 – 2017  
(on data analysis with STATA), Duke Kunshan University

## Conference Presentations

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AERE Summer Conference, Santa Ana Pueblo, NM, USA	2025
AAEA Annual Meeting, New Orleans, LA, USA	2024
GTAP 27th Annual Conference, Fort Collins, CO, USA	2024
I-GUIDE forum, New York, NY, USA	2023
AAEA Annual Meeting, Washington, D.C, USA	2023
AGU Fall Meeting 2022, Chicago, IL (poster) , USA	2022
AAEA Annual Meeting, Anaheim, CA, USA	2022
GTAP 25th Annual Conference, online	2022
AAEA & WAEA Joint Annual Meeting, online	2021
GTAP 24th Annual Conference, online	2021
GTAP 23rd Annual Conference, online	2020

## Webinar Presentations

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GLASSNET Webinar: SIMPLE-G-Brazil - Transportation Infrastructure Expansion in Brazil.  
Online. March 23, 2023.

<https://www.youtube.com/watch?v=qSA31yOgTeg>

GTAP Virtual Seminar Series: SMART Handout: An Innovative Tool to Empower Applied  
General Equilibrium Teaching. Online. October 15, 2024.

<https://www.youtube.com/watch?v=IBbsa6mUz50>

## Reviewer for Journals and Conferences

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Nature Food; Food Policy; Journal of the Agricultural and Applied Economics Association;  
China Agricultural Economic Review; Journal of Global Economic Analysis; Global Food  
Security; Environment, Development and Sustainability; Agribusiness: an International Journal;  
Journal of Forensic and Legal Medicine; Human Resources for Health; GTAP Annual  
Conferences (2022 - 2025)

## Training / Workshops

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I-GUIDE summer school, Boulder, CO	2023
NVIDIA Fundamentals of Deep Learning	2022
Trustworthy AI for Environmental Science	2021
Berkeley Sloan Summer School in Environmental and Energy Economics	2021

## Awards and Honors

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Grad Student Poster Competition (2 <sup>nd</sup> place) of AgEcon department, Purdue University	2022
Dean's Award for Special Contribution, Duke Kunshan University	2017
Degree Marshal for Nicholas School of the Environment, Duke University	2014
Outstanding Graduate of Beijing, Peking University	2012
Cyrus Tang Scholarship, Peking University	2008 - 2012

## Software Skills

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R, GEMPACK, QGIS, Python

## Language

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Chinese (native), English (fluent)

(Last updated: August 2025)