

# Weitong Long

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Hollandseweg 1, 6706 KN, Wageningen, the Netherlands

## RESEARCH INTERESTS

Sustainable food systems, food-land-climate nexus, climate mitigation, integrated environmental-economic modelling of food systems, and environmental impact assessment of food systems

## EDUCATION

- **Wageningen University & Research** 09/2020-Expected 10/2025  
*PhD Candidate of Economics in Environmental Economics and Natural Resources* Wageningen, the Netherlands
  - **Supervisor:** Dr. Xueqin Zhu, Dr. Hans-Peter Weikard, Prof. Dr. Oene Oenema, and Prof. Dr. Yong Hou
  - **Program:** The Sino-Dutch Agriculture Green Development (AGD) PhD program [[Link](#)]
  - **Dissertation:** Towards sustainable food systems in China: transformation options and their connections to the food-land-climate nexus [[Slides](#)]
- **University of California, Davis** 10/2024-01/2025  
*Visiting PhD Student* Davis, the United States
  - **Supervisor:** Dr. Luis M. Peña-Lévano
- **China Agricultural University** 09/2020-09/2021  
*Visiting PhD Student* Beijing, China
  - **Supervisor:** Prof. Dr. Yong Hou
- **China Agricultural University** 09/2018-06/2020  
*Master of Agriculture in Plant Nutrition* Beijing, China
  - **Supervisor:** Prof. Dr. Yong Hou and Dr. Hongliang Wang
  - **Dissertation:** Nitrogen footprint of China's pig production and feeding mitigation measures
- **Hunan Agricultural University** 09/2014-06/2018  
*Bachelor of Agriculture in Agricultural Resources and Environment* Changsha, China
  - **Dual Bachelor:** Dual Bachelor of Arts in English

## SELECTED PUBLICATIONS

F=FIRST AUTHOR, O=OTHER

Citations (Google Scholar: March 21, 2025): Total = 222; H-index = 7; I10-index = 7

- [F-1] Long, W., Zhu, X., Weikard, H.P., Oenema, O., Hou, Y. (2024). Exploring sustainable food system transformation options in China: An integrated environmental-economic modelling approach based on the applied general equilibrium framework. In: *Sustainable Production and Consumption (SCI & SSCI Q1; IF=10.9)*, 51, 42-54. DOI: 10.1016/j.spc.2024.09.004 [[Link](#)]  
*\*Presentations:* Wageningen School of Social Sciences (WASS) PhD Day (Wageningen, the Netherlands) [10/2022]; 7th Sino-Dutch Agriculture Green Development (AGD) Symposium (Wageningen, The Netherlands) [02/2023]; European Association of Environmental and Resource Economists (EAERE) Summer School (Graz, Austria) [07/2023]; XVII European Association of Agricultural Economists (EAAE) Congress (Rennes, France) [08/2023]
- [F-2] Long, W., Wang, H., Hou, Y., Chadwick, D., Ma, Y., Cui, Z., & Zhang, F. (2021). Mitigation of multiple environmental footprints for China's pig production using different land use strategies. In: *Environmental Science & Technology (SCI Q1; IF=10.8)*, 51, 42-54. DOI: 10.1021/acs.est.0c08359 [[Link](#)]
- [O-1] Tong, B., Zhang, L., Hou, Y., Oenema, O., Long, W., Velthof, G. L., ... & Zhang, F. (2022). Lower pork consumption and technological change in feed production can reduce the pork supply chain environmental footprint in China. In: *Nature Food (SCI Q1; IF=23.6)*, 1-10. DOI: 10.1038/s43016-022-00640-6 [[Link](#)]
- [O-2] Wang, H., Long, W., Chadwick, D., Zhang, X., Zhang, S., Piao, X., & Hou, Y. (2022). Dietary acidifiers as an alternative to antibiotics for promoting pig growth performance: A systematic review and meta-analysis. In: *Animal Feed Science and Technology (SCI Q1; IF=2.5)*, 115320. DOI: 10.1016/j.anifeedsci.2022.115320 [[Link](#)]
- [O-3] Wang, H., Long, W., Chadwick, D., Velthof, G. L., Oenema, O., Ma, W., ... & Zhang, F. (2020). Can dietary manipulations improve the productivity of pigs with lower environmental and economic cost? A global meta-analysis. In: *Agriculture, Ecosystems & Environment (SCI Q1; IF=6.0)*, 289, 106748. DOI: 10.1016/j.agee.2019.106748 [[Link](#)]

## WORKING PAPERS

- [1] **Long, W.,** Zhu, X., Weikard, H.P., Oenema, O., Hou, Y. (2025). Rebound effects may undermine benefits of upcycling food waste and food processing by-products as animal feed in China. *Resubmitted to Nature Food (SCI Q1; IF=23.6; Job Market Paper)*. [[Main text](#)] [[Supplementary information](#)] [[Slides](#)].  
\*Presentations: 9th Sino-Dutch Agriculture Green Development (AGD) Symposium (Wageningen, the Netherlands) [05/2024]; III Economy for The Common Good International Conference (ECGIC) (Leeuwarden, Fryslân, the Netherlands) [06/2024]; 29th Annual Conference of European Association of Environmental and Resource Economists (EAERE) (Leuven, Belgium) [07/2024]; 4th Dutch Environmental and Resource Economics (DEARE) Day workshop (Wageningen, the Netherlands) [02/2025]
- [2] **Long, W.,** Zhu, X., Oenema, O., Hou, Y., Peña-Lévano, L. M., Garcia-Covarrubias L., Boy, K.-F. (2025). Unintended trade-offs between food security and environmental sustainability: Impacts of China's dietary shift and afforestation under a stringent climate mitigation policy. [[Main text](#)] [[Supplementary information](#)]

## GRANTS AND AWARDS

- Junior Researcher Grant from WASS for the four-month of research at UC Davis (4,000 €; PI) 07/2024
- Travel Grant from the LEB Travel Fund to participate in the XVII EAAE Congress (750 €; PI) 06/2023
- Research Grant from the Sino-Dutch AGD PhD Program for data collection (8,300 €; PI) 12/2020
- PhD Full Scholarship from China Scholarship Council (CSC) for PhD research (48,600 €; PI) 12/2020
- Excellent Master's Degree Thesis from the Chinese Society of Plant Nutrition and Fertiliser Science (Awarded to the Top 1% best master thesis in China) 08/2020
- The First-Class Master Academic Scholarship of China Agricultural University (Top 1%) 10/2019

## TEACHING AND MENTORING EXPERIENCE

- Economic Modelling of Sustainability Challenges [Master], Wageningen, the Netherlands 2023 & 2024 Spring
- Principles of Climate Change Economics and Policy [Master], Wageningen, the Netherlands 2022 Winter
- Co-supervisor of Master Thesis [3 Master thesis completed], Wageningen, the Netherlands 03/2022-05/2024
- Chair of Master Thesis Ring [Organised weekly writing sessions], Wageningen, the Netherlands 01/2022-12/2022

## ACADEMIC SERVICES

- Conference Abstract Reviewer for the XVIII EAAE Congress 03/2025
- Conference Abstract Reviewer for the 2024 and 2025 AAEA Annual Meeting 02/2024 & 02/2025
- Conference Parallel Session Chair and Discussant for the 29th Annual Conference of EAERE 07/2024
- Conference Co-organiser for the 6th and 7th Sino-Dutch AGD Symposiums 06/2022 & 02/2023

## SKILLS

- **Programming:** General Algebraic Modeling System (GAMS, advanced, e.g. model establishment), General Equilibrium Modelling PACKage (GEMPACK, intermediate), R (intermediate).
- **Modelling:** Applied general equilibrium (AGE) modelling, life cycle assessment (LCA), input-output (I-O) analysis, material flow analysis (MFA), and meta-analysis.
- **Software:** ArcGIS, Simapro, Github, Latex, and Microsoft Office.
- **Languages:** Native to Mandarin Chinese. Strong reading, writing, and speaking competencies in English.

## REFERENCES

**Associate Prof. Dr. Xueqin Zhu**  
(PhD supervisor)  
Wageningen School of Social Sciences  
Wageningen University  
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**Prof. Dr. Oene Oenema**  
(PhD supervisor)  
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