

# 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** 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](#), Dr. [Luis Garcia Covarrubias](#), and Dr. [Karl-Friedrich Boy](#)
- **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 19, 2025): Total = 221; 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  
*\*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
- [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
- [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
- [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

## 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.** *Under Major Revision at 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.,** Peña-Lévano, L. M., Garcia-Covarrubias L., Boy, K.-F., Zhu, X., Oenema, O., Hou, Y. (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 Parallel Session Chair and Discussant** for the 29th Annual Conference of EAERE 07/2024
- **Conference Abstract Reviewer** for the 2024 and 2025 AAEA and XVIII EAAE Congress 02/2024 & 02-03/2025
- **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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