# 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 system 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: February 6, 2025): Total = 206; H-index = 7; I10-index = 6***

**[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 and Work in Progress

**[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**. ***Revise and Resubmit 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, upcoming]

**[2]** **Long, W.**, Zhu, X., Weikard, H.P., Oenema, O., Hou, Y. (2025). **Food system transformation is key to achieving food security and environmental sustainability in China**. ***In Preparation***. [Proposal].

**[3]** **Long, W.**, Peña-Lévano, L. M., Zhu, X., Weikard, H.P., Oenema, O., Hou, Y. (2025). **Exploring transformation options in the food-land-climate nexus: towards achieving multiple Sustainable Development Goals in China**. ***In Preparation***. [Proposal].

## 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 Annual Meeting *02/2024 & 02/2025*
- **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**
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