

Weitong Long

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Hollandseweg 1, 6706 KN, Wageningen, The Netherlands

RESEARCH INTERESTS

Sustainable food systems, food-land-water-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 and Natural Resource Economics 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-water-climate nexus [[Slides](#)]
- **University of California, Davis** 10/2024-01/2025
Visiting PhD Student Davis, United States
 - **Supervisor:** Dr. [Luis M. Peña-Lévan](#), Dr. [Luis Garcia Covarrubias](#), and [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: 17/11/2024): Total = 185; 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.** *Sustainable Production and Consumption (SCI & SSCI Q1; IF=10.9)*, 51, 42-54. DOI: 10.1016/j.spc.2024.09.004
**Conference Presentations:* Wageningen School of Social Sciences (WASS) PhD Day (Oral; Wageningen, The Netherlands, 10/2022), 7th Sino-Dutch Agriculture Green Development (AGD) Symposium (Oral; Wageningen, The Netherlands, 02/2023), European Association of Environmental and Resource Economists (EAERE) Summer School (Oral; Graz, Austria, 07/2023), XVII European Association of Agricultural Economists (EAAE) Congress (Poster; 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.** *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.** *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.** *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.** *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. (2024). **Rebound effects may undermine benefits of upcycling food waste and food processing by-products as animal feed in China.** *Submitted to a Peer-Reviewed Journal (Job Market Paper)*. [Main text] [Supplementary information] [Slides].
*Conference Presentations: 9th Sino-Dutch Agriculture Green Development (AGD) Symposium (Oral; Wageningen, The Netherlands, 05/2024), III Economy for The Common Good International Conference (ECGIC), (Oral; Leeuwarden, Fryslân, The Netherlands, 06/2024), 29th Annual Conference of European Association of Environmental and Resource Economists (EAERE) (Oral; Leuven, Belgium, 07/2024)
- [2] Long, W., Zhu, X., Weikard, H.P., Oenema, O., Hou, Y. (2024). **Food system transformation is key to achieving food security and environmental sustainability in China.** *In Preparation*. [Proposal].
- [3] Long, W., Zhu, X., Weikard, H.P., Oenema, O., Hou, Y. (2024). **Exploring transformation options in the food-land-water-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 PhD study 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 Program for data collection (**8,300 €**; PI) 12/2020
- **PhD Full Scholarship** from China Scholarship Council (CSC) (**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 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** 07/2024
The 29th Annual Conference of European Association of Environmental and Resource Economists (EAERE) 
- **Conference Abstract Reviewer** 02/2024
The 2024 Agricultural & Applied Economics Association (AAEA) Annual Meeting 
- **Conference Co-organiser** 06/2022 & 02/2023
The 6th and 7th Sino-Dutch Agriculture Green Development (AGD) Symposiums 

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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Prof. Dr. **Yong Hou**
(Master supervisor and PhD co-supervisor)
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