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

Publications

F=First Author, O=Other

Citations (Google Scholar: November 21, 2024): Total = 187; 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.**, Peña-Lévano, L. M., 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

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