Weitong Long

(+31) 616269193 | weitong.long@wur.nl | http://weitonglong.com/
Google Scholar | ResearchGate | LinkedIn | Twitter (X) | Github
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 School of Social Sciences, Wageningen University & Research** *09/2020-Expected 01/2026*
  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: insights from an integrated environmental-economic modelling approach
- **School of Veterinary Medicine, University of California, Davis** *10/2024-01/2025*
  Visiting PhD Student Davis, the United States
  - **Supervisor:** Dr. Luis M. Peña-Lévano
- **College of Resources and Environmental Sciences, China Agricultural University** *09/2020-09/2021*
  Visiting PhD Student Beijing, China
  - **Supervisor:** Prof. Dr. Yong Hou
- **College of Resources and Environmental Sciences, 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 mitigation measures through feed management
- **College of Resources, 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: September 10, 2025): Total = 281; H-index = 7; I10-index = 7

[F-1] **Long, W.**, Zhu, X. (2025). Upcycling of food waste and food processing by-products into animal feed is not a panacea. In: ***Nature Food (SCI Q1; IF=21.9; Research Briefing)***. DOI: 10.1038/s43016-025-01235-7 [Link]

[F-2] **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. In: ***Nature Food (SCI Q1; IF=21.9; Research Article)***. DOI: 10.1038/s43016-025-01219-7 [Link]

*Presentations: 9th Sino-Dutch Agriculture Green Development (AGD) Symposium (Wageningen, the Netherlands) [Oral; 05/2024]; III Economy for The Common Good International Conference (ECGIC) (Leeuwarden, Fryslân, the Netherlands) [Oral; 06/2024]; 29th Annual Conference of European Association of Environmental and Resource Economists (EAERE) (Oral; Leuven, Belgium) [07/2024]; 4th Dutch Environmental and Resource Economics (DEARE) Day workshop (Oral; Wageningen, the Netherlands) [Oral; 02/2025]

[F-3] **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=9.6)***, 51, 42-54. DOI: 10.1016/j.spc.2024.09.004 [Link]

*Presentations: Wageningen School of Social Sciences (WASS) PhD Day (Wageningen, the Netherlands) [Oral; 10/2022]; 7th Sino-Dutch Agriculture Green Development (AGD) Symposium (Wageningen, The Netherlands) [Oral; 02/2023]; European Association of Environmental and Resource Economists (EAERE) Summer School (Graz, Austria) [Oral; 07/2023]; XVII European Association of Agricultural Economists (EAAE) Congress (Rennes, France) [Poster; 08/2023]

[F-4] **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=11.3)***, 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=21.9)***, 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=2.7)***, 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=6.4)***, 289, 106748. DOI: 10.1016/j.agee.2019.106748 [Link]

Working Papers

[1] **Long, W.**, Zhu, X., Hou, Y., Peña-Lévano, L. M., Garcia-Covarrubias L., Boy, K.-F. (2025). Emission leakages through trade-induced land use changes may undermine the effectiveness of diet shift and afforestation policies in China. *Full paper available upon request*.

*Presentations: XVIII European Association of Agricultural Economists (EAAE) Congress (Bonn, Germany) [Poster; 08/2025]

Grants and Awards

- Junior Researcher Grant from WASS for the four-month 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 Paper 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), and 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 & Research
xueqin.zhu@wur.nl

Prof. Dr. Oene Oenema
(PhD co-supervisor)
Wageningen Environmental Research
Wageningen University & Research
oene.oenema@wur.nl

Associate Prof. Dr. Hans-Peter Weikard
(PhD supervisor)
Wageningen School of Social Sciences
Wageningen University & Research
hans-peter.weikard@wur.nl

Prof. Dr. Yong Hou
(PhD co-supervisor and Master supervisor)
College of Resources and Environmental Sciences
China Agricultural university
yonghou@cau.edu.cn