

Guopeng Liang, Ph.D.

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PROFESSIONAL EXPERIENCE

Assistant Professor, University of Hong Kong (2026 – present)

Brown Postdoctoral Fellow, Yale University (2024 – 2026; supervisor: Michelle Wong)

Postdoctoral Exchange Fellow, University of Michigan (2024 – 2026; supervisor: Peter Reich)

Postdoctoral Associate, University of Minnesota (2022 – 2024; supervisor: Peter Reich)

EDUCATION

Ph.D., Utah State University (2022; supervisor: Bonnie Waring and John Stark)

M.S., Chinese Academy of Agricultural Sciences (2016)

B.S., Shandong Agricultural University (2013)

SELECTED REPRESENTATIVE PUBLICATIONS (8 out of 70+)

*H-index = 29, Citations > 3,000 (Source: [Google Scholar](#); *: corresponding author).*

1. **Liang, G***, Schlesinger, W (2026) Potassium fertilization enhances both cereal yield and soil organic carbon: a meta-analysis. *Nature Communications*.
2. **Liang, G*** (2025) Tree diversity increases soil carbon accumulation. *Nature Reviews Biodiversity*.
3. **Liang, G***, Stefanski, A., Eddy, W., Bermudez, R., Montgomery, R., Hobbie, S., Rich, R., Reich, P* (2024) Soil respiration response to decade-long warming modulated by soil moisture in a boreal forest. *Nature Geoscience*.
4. **Liang, G.**, Stark, J., Waring, B (2023) Mineral reactivity determines root effects on soil organic carbon. *Nature Communications*.
5. Tang, S., Pan, W., Yang, Y., Luo, Z., Wanek, W., Kuzyakov, Y., Marsden, K., **Liang, G.**, Chadwick, D., Gregory, A., Wu, L., Liang, Y., Ma, Q., Jones, D (2025) Soil carbon sequestration enhanced by long-term nitrogen and phosphorus fertilization. *Nature Geoscience*.
6. **Liang, G***, Sun, P., Waring, B., Fu, Z., Reich, P (2025) Alleviating nitrogen and phosphorus limitation does not amplify potassium-induced increase in terrestrial biomass. *Global Change Biology*.
7. **Liang, G*** (2022) Nitrogen fertilization mitigates global food insecurity by increasing cereal yield and its stability. *Global Food Security*.
8. **Liang, G***, Luo, Y., Zhou, Z., Waring, B (2021) Nitrogen effects on plant productivity change at decadal time-scales. *Global Ecology and Biogeography*.

ACADEMIC LEADERSHIP & COMMUNITY IMPACT

- **Editorial Service:**
 - **Associate Editor** for *Global Ecology and Biogeography*, *Carbon Balance and Management*, and *Soil Use and Management*.
 - **Subject-matter Editor** for *Ecological Monographs*.
 - **Editorial Board Member** for *Communications Earth and Environment*, *Global Change Biology*, *New Phytologist*, and *Applied Soil Ecology*.
 - **Section Editor** for *Plant and Soil*.
- **Scientific Community Engagement:**
 - **Journal Club Panelist** for *Proceedings of the National Academy of Sciences*.
 - **Review Panelist** for **USDA** (2024) and **NSF grants** (2026).
 - **Reviewer** for **140+ manuscripts** for journals including *Nature Geoscience*, *Nature Communications*, *PNAS*, *Ecology Letters*, and *Global Change Biology*.

SELECTED HONORS & AWARDS

- **Stanford/Elsevier's Top 2% Scientist** (Field: Agriculture, Fisheries & Forestry) | 2024, 2025
 - *Recognized for single-year citation impact among the world's most cited scientists.*
- **U.S. Carbon Program Leadership Award** | 2023
 - *Jointly sponsored by NASA, NOAA, USDA, and USFS.*
- **Gene E. Likens Award** | 2024
 - *Awarded by the Biogeosciences Section of the Ecological Society of America for outstanding research by an early-career scientist.*
- **Biogeosciences Leaders of Tomorrow** | 2025
 - *Selected by the American Geophysical Union and JGR-Biogeosciences as a future leader in the field.*
- **Brown Postdoctoral Fellowship** | 2024
 - *A highly competitive fellowship awarded by Yale University.*
- **Early Career Award** | 2025
 - *Sponsored by the Asian Ecology Section of the Ecological Society of America.*
- **IGCB Postdoctoral Exchange Fellowship** | 2024
 - *Awarded by the Institute for Global Change Biology at the University of Michigan.*
- **Sino-Eco Young Investigator Paper Award** | 2024
 - *Sponsored by Sino-Ecologists Association Overseas.*