

# Stanford

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## Mengyu Liang (Amber)

Postdoctoral Scholar, Earth System Science

### Bio

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#### BIO

I'm currently a postdoc at Stanford Woods Institute of the Environment working on combining remote sensing and econometric to assess the environmental and social outcomes of natural climate solutions and forest management interventions. I completed my PhD at the Department of Geographical Sciences at UMD in May 2024. During my PhD, I developed remote sensing techniques utilizing multi-source remote sensing data (e.g., GEDI, ICESat2, Landsat archive, PlanetScope) for monitoring long-term carbon sequestration in forest restoration areas in East Africa. Seeking to understand how to use Earth Observation to improve the sustainability of human-environment interaction is both a passion of mine and the research agenda during my PhD and onwards. Moreover, I have developed skills in forest inventory and Terrestrial Laser Scanner (TLS) data collection from working on field campaigns in Mozambique and Uganda. Developing web-based interactive map dashboards is another set of technical expertise that I have been practicing (see <http://mliang8.github.io/> for map portfolio ) and want to employ in future projects to enhance communications with various stakeholders.

#### PROFESSIONAL EDUCATION

- Master of Science, Technische Universitat Munchen (2019)
- Bachelor of Science, University of Wisconsin Madison (2017)
- Doctor of Philosophy, University of Maryland College Park (2024)
- PhD, University of Maryland, College Park , Geographical Sciences (2024)
- MS, Technical University of Munich , Cartography (2019)
- BS(w/ Honors), University of Wisconsin, Madison , Geography, Cartography/GIS (2017)

#### STANFORD ADVISORS

- Chris Field, Postdoctoral Faculty Sponsor

### Research & Scholarship

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#### LAB AFFILIATIONS

- Chris Field, Global Ecology and Climate Solutions Lab (9/4/2025)