

# Curriculum vitae

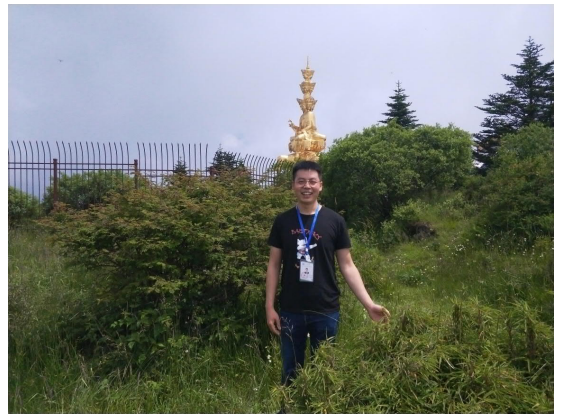
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## Xiong Liu

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## RESEARCH INTERESTS

My research interest is in plant functional traits, including leaf economic spectrum, trade-offs of plant functional traits, intraspecific and interspecific trait variation, and plant-environment interactions. Besides, I have also researched the impact of global changes (increased nitrogen deposition, changes in precipitation patterns) on soil biochemical processes.

## EDUCATION

➤ **02/2023 – Present** CREAM, UAB

**CSC funded PhD student.** Advisor: Prof. Josep Peñuelas and Congde Huang

➤ **09/2020 - Present** College of Forestry, Sichuan Agricultural University

**PhD student of Forest Cultivation.** Advisor: Prof. Congde Huang

Tentative: Leaf economic spectrum and vein network of Bambusoideae.

➤ **09/2017 - 06/2020** College of Forestry, Sichuan Agricultural University

**Master of Forestry: Forestry.** Advisor: Prof. Congde Huang

Graduation thesis: Effects of density regulation and compound fertilizer application on soil nutrient and bamboo shoot yield in *Chimonobambusa utilis* forest, Gulin County.

➤ **09/2013 - 06/2017** College of Forestry, Sichuan Agricultural University

**Bachelor of Agriculture: Forestry.** Advisor: Prof. Congde Huang.

Graduation thesis: Effects of simulated rainfall changes on soil enzyme activities in natural evergreen broad-leaved forests in Rainy Area of West China.

## EXPERIENCES

January 2021 - December 2025

➤ **Research Assistant:** Field work, sampling campaign, data logging, sample analysis, data analysis and report writing for project “Sichuan Province "14th Five Year Plan" Crop and Livestock Breeding Project, **Research on the Creation and Matching Technology of Shoot's Bamboo Resources**” (2021YFYZ0006) ¥ 500,000

January 2015 - December 2020

➤ **Research Assistant:** Field work, sampling campaign, data logging, sample analysis and data analysis for project “Sichuan Province "13th Five Year Plan" Crop and Livestock Breeding Project, **Research on the Creation and Matching Technology of Shoot's Bamboo Resources**” (2016NYZ0038) ¥ 500,000

### **Other research projects**

- Effects of simulated nitrogen deposition and precipitation changes on microbial residues during litter decomposition in natural evergreen broad-leaved forest.
- Forest carbon storage and potential for increasing sinks in Chengdu.

## **PUBLICATIONS**

1. **Liu X.**, Zhou S., Hu J., Zhu W., Zhou Y., Pan X., Wang Y., Lei Y., Xiao L., Huang C. (2022) Density Management Is More Cost Effective Than Fertilization for *Chimonobambusa pachystachys* Bamboo-Shoot Yield and Economic Benefits. *Forests*, 13(7), 1054. DOI: 10.3390/f13071054.
2. **Liu, X.**, Xiang L., Zhao D., Huang J., Zhou F., Liao J., Lan S., Du M., Zhou Y., Huang, C. (2021) Stoichiometric characteristics of nitrogen and phosphorus in *Chimonobambusa utilis* leaves at different elevations. *Chinese Journal of Applied and Environmental Biology*. DOI: 10.19675/j.cnki.1006-687x.2021.02054. (In Chinese with English abstract).
3. **Liu, X.**, Luo, C., Xiang, Y., Xiao, Y., Zhou, S., Tie, L., Hu, J., Han, B., Huang, S., Huang, C. (2020) Effects of simulated precipitation changes on soil enzyme activities in a natural, evergreen, broad-leaf forest in the Rainy Area of Western China. *Chinese Journal of Applied and Environmental Biology*, 26(3), 635-642. DOI: 10.19675/j.cnki.1006-687 x.2019.05050 (In Chinese with English abstract).
4. Hu J., Zhou SX., Tie L., **Liu X.**, Liu X., Zhao A., Lai J., Xiao L., You C., Huang C. (2022) Effects of nitrogen addition on soil faunal abundance: A global meta-analysis. *Global Ecology and Biogeography*, 31(8), 1655-1666. DOI: 10.1111/geb.13528.
5. Hu J., Huang C., Zhou S., **Liu X.**, Dijkstra F. A. (2022) Nitrogen addition increases microbial necromass in croplands and bacterial necromass in forests: A global meta-analysis. *Soil Biology and Biochemistry*, 165: 108500. DOI: 10.1016/j.soilbio.2021.108500.

## **CHINESE NATIONAL INVENTION PATENT**

1. A dyeing method for the vein network of Bambusoideae.

The first inventor (Under review)

## **SCHOLARSHIPS AND HONORS RECEIVED**

2021-2022, National Second-class Academic Scholarship

2020-2021, National Second-class Academic Scholarship

2020, A-level certificate comprehensive quality of college students in Sichuan province

2018-2019, National Third-class Academic Scholarship

2017-2018, National Third-class Academic Scholarship

## **ACADEMIC ACTIVITIES**

The 19th Chinese Ecology Conference, Online, 2020

The 21th Chinese Ecology Conference, 2022