Juan LIANG

liangjuangis@snnu.edu.cn

Education

Shaanxi Normal University **Xi An, CHINA**
School of Geography and Tourism *09/2021-07/2024*
Advisor: Prof. Xianfeng Liu; Postgraduate Studentship; GPA: 85/100
Course: Data Analysis in Geography; Spatial Analysis;
Methods of Modern Geographical Research;
Geological Analysis in Remote sensing;

Hohai University **Nan Jing, CHINA**
College of Hydrology and Water Resources *09/2017-07/2021*
Scholarships for THREE consecutive years;
Advanced Individual; Excellent Student Cadre; National Computer Rank Examination 2;

Publication

[1] **Liang, J.**, Liu, X., AghaKouchak, A., Ciais, P., & Fu, B. (2023). Asymmetrical precipitation sensitivity to temperature across global dry and wet regions. *Earth's Future*, *11*, e2023EF003617. (first author)

[2] WANG Xiao-hong, LIU Xian-feng, SUN Gao-peng, **LIANG Juan.** Response of vegetation productivity to drought in the Qinling-Daba Mountains, China from 2001 to 2020[J]. Chinese Journal of Applied Ecology, 2022, 33(8): 2105-2112. (co-author)

In Process：

[1] Xianfeng Liu, , , **Juan Liang**. Nighttime temperature is a major driver of rice quality in East Asia. Nature Communications. (co-author)

[2] Jiayuan Liu, Xianfeng Liu, **Juan Liang**, Yu Feng. Climate-driven changes in drought metrics across the Yellow River Basin based on CMIP6. Applied Geography. (co-author)

Working Papers：

[1] Causal relationships and underlying mechanisms in Drought-flood abrupt alteration events at a global scale.

Skill

Language: CET6(College English Test Band 6 Certificate); Chinese(native)
Programming and others: Python, R, MATLAB, JavaScript, Google Earth Engine

Research Experiences

1. River information extraction using LANDSAT remote sensing image data on Google Earth Engine platform. — Undergraduate thesis

Main work: Retrieve data online; Processing of remote sensing image data; Extract river mask; Calculate centerline of river; Calculate widths of river;

2.Tracing the source of the bias in sensors of GPM precipitation data in China. (Project Leader) — Undergraduate innovation program (National level)

Main work: Retrieve observed and satellite data; Calculate bias indices; Climate regionalization and mapping; Bias analysis and tracing;
Published a journal article as the first author.

Project Experiences

Participant：

National Natural Science Foundation (Grants: 42171095; 42371123)
the Social Science Foundation of Shaanxi Province (Grant: 2020D039)
the Fundamental Research Funds for the Central Universities (Grant: GK202201008),
the Open Foundation of the State Key Laboratory of Urban and Regional Ecology of China (Grant: SKLURE2022-2-1).