



# Junlan Xiao

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## ABOUT ME

3rd year Ph.D. student at Southwest University.

Passionate about climate change and the potential impacts on Earth's ecosystems based on multi-source data and remote sensing, particular focus on extreme events, drought, and terrestrial carbon cycle.

## HONORS & AWARDS

2022 Awarded Ph.D. Joint Training Program Fellowship (Chinese scholarship council)  
2022 Awarded Outstanding Graduate Student Scholarship (School of Geographical Sciences, Southwest University)  
2021 Awarded Xingming Yin Scholarship (School of Geographical Sciences, Southwest University)

## SKILLS

### Programming Skills

- R
- Python
- MATLAB

### Technical Skills

- Google suite
- Microsoft suite
- Adobe suite

### Language Skills

- English (Fluent)
- Mandarin (Proficient)

## EDUCATION

### Ph.D. in Natural Geography

Southwest University, Chongqing, China

2020 – Present

### MSc in Climate Change Science and Policy

University of Bristol, Bristol, UK

2018 – 2020

### B.A. in Ecology

South China Agriculture University, Guangzhou, China

2014 – 2018

## PUBLICATIONS

**JL Xiao**, F Zeng, QL He, YX Yao, X Han, WY Shi\*. Responses of Forest Carbon Cycle to Drought and Elevated CO<sub>2</sub>. *Atmosphere*, 2021, 12(2):212.

**JL Xiao**, C Terror, P Gentine, R Tateno, L Fan, MG Ma, YM Yue, WP Yuan, WY Shi\*. Increasing droughts affect vegetation growth driven by timing and phenology in a humid big river basin (Submitted to *AGU Earth's Future*, under review)

QL He, **JL Xiao**, WY Shi\*. Responses of Terrestrial Evapotranspiration to Extreme Drought: A Review. *Water*, 2022, 14(23):3847.

YX Yao, XL Liao, **JL Xiao**, QL He, WY Shi\*. The sensitivity of maize evapotranspiration to vapor pressure deficit and soil moisture with lagged effects under extreme drought in Southwest China. *Agricultural Water Management*, 2023, 277: 108101.

HC Wang, XH He, YJ Zhang, **JL Xiao**, H W, MG Ma, R Tateno, WY Shi\*, Variations in litter-soil properties between planted and naturally restored forests drive microbial community structure and function. *Applied Soil Ecology*, 2023, 189: 104977.

## PROJECTS

2021-2024 Vegetation responses to drought events and coupling relationship with key environmental factors in the upper Yangtze River basin - **Postgraduate scientific research innovation project of Chongqing** (Leading)

2020-2023 Response and biological driving mechanism of soil respiration to changing of precipitation in oak (*Quercus liaotungensis*) forest stand in forest-grassland transition zone of Loess Plateau - **National Natural Science Foundation of China** (Joining)

2021-2024 Responses of forest carbon processes to drought in the upper reaches of the Yangtze River - **Chongqing Outstanding Youth Science Foundation** (Joining)