

Yirong Sang

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Research Interests

- Remote sensing observation and analysis of vegetation dynamics and resilience
- Temporal alteration in vegetation biodiversity, and its influences on vegetation resilience
- Vegetation modeling and in-situ observations to support and supplement remote sensing
- Influences of environmental factors on vegetation status and ecosystem functions

Education

Wuhan University Wuhan, China

M.Sc. student, Remote Sensing Science and Technology, GPA: 3.52/4.00 Sept. 2021–Jun. 2024

Advisor: Professor Feng Tian

Thesis: Investigating the topographic effects on boreal coniferous forest responses to drought and their influence factors

Wuhan University Wuhan, China

B.Sc., Remote Sensing Science and Technology, GPA: 3.74/4.00 Sept. 2017–Jun. 2021

Thesis: Evaluating precipitation and evapotranspiration products with a water balance method

Publication

Y. Sang, F. Tian, H. Jin, Z. Cai, L. Feng, Y. Dou, and L. Eklundh. “Assessing topographic impacts on forest response to drought with multiple seasonal metrics from Sentinel-2”, *International Journal of Applied Earth Observation and Geoinformation* 128, 103789. <https://doi.org/10.1016/j.jag.2024.103789>.

Research Experiences

Analysis of vegetation drought responses with remote sensing product

- Vegetation resistance, resilience, and response delay under extreme drought event
- Analysis of multiple vegetation seasonal metrics, including phenology and productivity
- Group-comparison analysis of the role of topographic variables, i.e. elevation, aspect, and slope

Remote sensing products evaluating

- Frequently-used 3 precipitation products and 2 evapotranspiration products involved
- Based on a land ecosystem water balance equation

Skills

Programming: Python, C/C++, MATLAB

Software & Platform: Google Earth Engine (GEE), QGIS, ArcGIS, ENVI, ERDAS

Experiences in remote sensing data processing and analyzing

Academic Activities

Oral Presentation

Y. Sang and F. Tian, “The Topographic Effects in Northern European Conifer Drought Responses”, the 1st Academic Conference on Ecosystem Remote Sensing in China, Shenzhen, China, Aug. 17–19, 2023.

Poster Presentation

Y. Sang and F. Tian, “The Topographic Differentiation in Forest Drought Responses”, the 1st National Remote Sensing Geography Congress, Nanjing, China, May 10–12, 2024.

Attendance and Service

Land Surface Remote Sensing Academic Salon, Yangzhou, China, Apr. 1–2, 2021.
Summer School of Quantitative Remote Sensing of Wuhan University, 2020 to 2023.

Honor and Scholarships

First Prize in May Day Mathematical Contest in Modeling	Jun. 2020
Third Class Scholarship of Wuhan University	Dec. 2019
Third Class Scholarship of Wuhan University	Dec. 2018

Additional Experiences

Organizing, managing, and teaching experiences in student societies and volunteer work.

References

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Dr. Hongxiao Jin, Lund University. TEL: +4560855878, Email: hongxiao.jin@nateko.lu.se