

# Yang Li

Postdoctoral Research Associate

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## Key Words

Droughts, Global Climate Change, Ecosystem Resilience, Machine Learning, Geographic Information System (GIS), Remote Sensing, Drylands

## Professional experience:

**Postdoctoral Research Associate (with Prof. David Moore) (Mar. 2024 - present)**

University of Arizona, Tucson, AZ, USA

## Education:

**Ph.D.: Beijing Normal University (Sep. 2017 – July. 2023)**

**Major:** Cartography and Geography Information System

**M.S.: China University of Geosciences (September 2015 – July 2017)**

**Major:** Surveying and mapping engineering

**B.S.: Henan University of Urban Construction (September 2011 – July 2015)**

**Major:** Geographic Information System

## Publications

- [1] Li Y, Zhang W, Schwalm, C. R., Gentine, P, et al. Widespread vegetation phenology effects on drought recovery of Northern Hemisphere ecosystems[J]. *Nature Climate Change*, 2023, 13(2), 182-188.
- [2] Zhang W, Li Y, Wu X, et al. Divergent response of vegetation growth to soil water availability in dry and wet periods over Central Asia[J]. *Journal of Geophysical Research: Biogeosciences*, 2021, 126(6): e2020JG005912.
- [3] Xu T., Wu X., Tian Y., Li Y., et al. (2021). Soil property plays a vital role in vegetation drought recovery in karst region of southwest China[J]. *Journal of Geophysical Research: Biogeosciences*, 126(12), e2021JG006544.
- [4] Li Y., Zhang W., Chen Y., Li J.\* (2019) Self-Calibrating Palmer Drought Severity Index-based analysis on spatial and temporal characteristics of drought from 1961 to 2015 in China[J]. *Water Resources and Hydropower Engineering*, 50(01):43-51.
- [5] Zhang Y., Chen Y., Li Y., Xia H., & Li J. (2019). Reconstructing One Kilometre Resolution Daily Clear-Sky LST for China's Landmass Using the BME Method[J]. *Remote Sensing*, 11(22), 2610.
- [6] Zhang W., Li J., Chen Y., & Li Y. (2019). A Surrogate-Based Optimization Design and Uncertainty Analysis for Urban Flood Mitigation[J]. *Water Resources Management*, 33(12), 4201-4214.

## Teaching Assistant

Beijing Normal University	3S Technology Frontier	Mar. 2019-Jul. 2019
Beijing Normal University	3S Technology Frontier	Mar. 2018-Jul. 2018
China University of Geosciences	Principles of Remote Sensing	Mar. 2016-Jul. 2016

## Conference Presentation & Workshop

Li, Y., Vegetation recovery patterns under drought stress in China from 2000 to 2018 (Poster). AGU Fall Meeting, 9-13 December, San Francisco, USA. (2019).

**Skills**

Python, R, MySQL, Google Earth Engine, ArcGIS, QGIS, ENVI, Machine Learning, Linux, HPC, Parallel Computing, Adobe Illustrator/Photoshop/Dreamweaver