

## Curriculum Vitae

### Ruochen CAO

Nanjing University

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### Education

<b>Doctoral student</b>	GIS, Nanjing University	2021.09 –
<b>M.S.</b>	Physical Geography, South China Normal University	2018.09 – 2021.06
	<b>Thesis:</b> Comparison and application of approaches to partition evapotranspiration in terrestrial ecosystems.	
<b>B.E.</b>	GIS & Remote sensing, Henan Polytechnic University	2014.09 - 2018.06

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### Publications in Peer-Reviewed Journals

- 1 **Cao R**, Hu Z, Jiang Z, et al. Shifts in ecosystem water use efficiency on China's Loess Plateau caused by the interaction of climatic and biotic factors over 1985–2015. *Agricultural and Forest Meteorology*. 291, 108100 (2020).
  - 2 **Cao R**, Huang H, Wu G, et al. Spatiotemporal variations in the ratio of transpiration to evapotranspiration and its controlling factors across terrestrial biomes. *Agricultural and Forest Meteorology*. 321, 108984 (2022)
  - 3 **Cao R**, Zhang Y, Fernández-Martínez M, et al. Global evidence of positive effects of richness of tree species on ecosystem photosynthesis. (Under Review)
  - 4 Liang M, **Cao R**, Di K, et al. Vegetation resistance and resilience to a decade-long dry period in the temperate grasslands in China. *Ecology and Evolution*. 15,10582-10589 (2021).
  - 5 Wu G, Cai X, Keenan T, Li S, Luo X, Fisher J, **Cao R**, Li F, Purdy A, Zhao W, Sun X, Hu Z. Evaluating three evapotranspiration estimates from model of different complexity over China using the ILAMB benchmarking system. *Journal of Hydrology*. (2020).
  - 6 Wu G, Hu Z, Keenan T, Li S, Zhao W, **Cao R**, Li Y, Guo Q, Sun X. Incorporating spatial variations in parameters for improvements of an evapotranspiration model. **Journal of Geophysical Research: Biogeosciences**. (2020).
  - 7 Jiang Z, Yang Z, Zhang S, Liao C, Hu Z, **Cao R**, Wu H. Revealing the spatio-temporal variability of evapotranspiration and its components based on an improved Shuttleworth-Wallace model in the Yellow River Basin. *Journal of Environmental Management*. 262. (2020).
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### Awards & Honors

- The National Scholarship, 2020
  - The National Scholarship, 2016
  - *Outstanding Graduate* in South China Normal University, 2021
  - *Outstanding Graduate* in Henan Polytechnic University, 2018
  - *Honor of Merit Student* of Henan Province, 2016
  - *Excellent Graduate Student Leader* in South China Normal University, 2020
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## **Skill and Tools**

- Programming and Analysis: Matlab, Python, R Statistics, C++
  - Professional software: ArcGIS, ENVI, Origin, Adobe Photoshop
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## **Public Service**

- Teaching Assistant in Ecosystem Ecology Course. 2019.03 - 2019.06
- Student Representative in South China Normal University. 2018.09 - 2019.06
- Student Representative in Institute of Resources & Environment. 2015.09 - 2018.06
- Volunteer in 18th China University Basketball Association. 2016.04 - 2016.05
- Volunteer in 8th China International Tai Chi Contest. 2015.08 - 2015.09