

# Wenge Rao

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## EDUCATION

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**Ph.D. in Physical Geography**  
(expected)

Sept. 2020 - June 2026

Peking University, Beijing

**B.S. in Ecology**

Sept. 2016 - June 2020

Guizhou University, Guizhou

## PUBLICATION

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1. **Rao, W.**, Shen, Z., & Duan, X. (2023). Spatiotemporal patterns and drivers of soil erosion in Yunnan, southwest China: RULSE assessments for recent 30 years and future predictions based on CMIP6. *Catena (Giessen)*, 220, 106703. ([link](#))
2. Zhao, F., Yang, T., Luo, C., **Rao, W.**, Yang, G., Li, G., & Shen, Z. (2022). Comparing elevational patterns of taxonomic, phylogenetic, and functional diversity of woody plants reveal the asymmetry of community assembly mechanisms on a mountain in the hengduan mountains region. *Frontiers in Ecology and Evolution*, 10. ([link](#))
3. **Rao, W.**, Shen, Z., Liu, X., & Liu, Q. (2023). Drought vulnerability of fragmented forests in Great Green Wall of China impacted by climate change and human activities (in submission)
4. Bao, J., **Rao, W.**, Shen, Z. & Zhao, F. (2023). Species diversity patterns and assembly rules of elevational vegetation zones in Yunlong Tianchi of Hengduan Mountains: Integration of Phylogeny and Traits. (in submission)
5. Ning, C., **Rao, W.**, Shen, Z. & Li, J. (2023). Hydrothermal gradient drives the elevational transition of relationship between tree growth and forest canopy productivity. (in submission)

## AWARDS

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- Xingye Scholarship, Peking University, 2023
- Research Excellence Award, Peking University, 2023
- Outstanding Presentation Award, The 19<sup>th</sup> Peking University Eco-Youth Forum, Dec. 2022
- Individual Innovation Award, Guizhou University, Dec. 2019
- Third Prize, Esri China GIS Software Development Competition, Geographic Design Track, Nov. 2019
- Excellence Award, Esri China GIS Software Development Competition, Remote Sensing Applications Track (as team leader), Nov. 2018

## TALKS

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- The IALE 2023 World Congress, Kenya, July 2023

- The 11<sup>th</sup> IALE-China, Beijing, June 2023
- The 19<sup>th</sup> Peking University Eco-Youth Forum, Beijing, Dec. 2022
- The 21<sup>th</sup> Conference on Ecology, Guizhou, Oct. 2022
- The 20<sup>th</sup> Conference on Ecology, Shanghai, Oct. 2021

### **SCHOOL ACTIVITIES**

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- Chair, Sports and Culture Department, Graduate Student Association, Peking University, June 2021 - June 2022
- Goalkeeper, College Football Team & Point Guard, College Basketball Team, Peking University, Sept. 2020 - Present
- Assistant, Student Affairs Office, Peking University, Sept. 2020 - Present
- Member, School TV Department, Guizhou University, Sept. 2016 - June 2017

### **SKILLS & INTERESTS**

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Skills: Proficient in R, Google Earth Engine, ArcGIS, MATLAB, and ENVI

Interests: Enjoys ball sports, photography, calligraphy, and singing