

# ZHIMIN YANG

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## PROFESSIONAL SUMMARY

### RESEARCH INTEREST

Ecological hydrology, Climate change, River biogeochemical, Carbon cycle  
Surface material cycle, Land use change, Risk assessment, Source apportionment

### SKILLS

Computer and software: R, ArcGIS, SPSS, Origin, PS, Hydrologic models  
Hobbies: Running, Literature, Traveling and backpacking, Photograph



## EDUCATION

### Master of Hydrology and Water Resources

GPA: 3.80/4.00 Rank: 1/96

Beijing normal university, Beijing, China  
September 2021 – Present

### Bachelor of Geographical Science

GPA: 4.23/5.00 Rank: 1/84

Hunan normal university, Changsha, China  
September 2017 – July 2021

## JOURNAL ARTICLES

- Yang, Z.,** Li, C., Liu, Y., Duan, J., Zhang, L., Li, Z., Zhou, X., Li, Q., Ma, Y., Tian, L., 2023. Roles of the stolon and erect grass species in surface–subsurface flow generation and red soil loss. *Journal of Hydrology*, 617, 128827. DOI:10.1016/j.jhydrol.2022.128827.
- Yang, Z.,** Li, C., Chen, H., Shan, X., Chen, J., Zhang, J., Liu, S., Liu, Q., Wang, X., 2023. Source-oriented ecological and resistome risks associated with geochemical enrichment of heavy metals in river sediments. *Chemosphere*, 336, 139119. DOI:10.1016/j.chemosphere.2023.139119.
- Yang, Z.,** Bu, J., Li, Z., Li, C., Yi, Y., Wang, X., Liu, Q., 2023 A novel index-based method associated with aquatic ecosystem for evaluating river longitudinal connectivity: A case study for cascade dams in the Yalong River, China. *Ecological Indicators*, 154, 110903. DOI:10.1016/j.ecolind.2023.110903.
- Yang, Z.,** Yan, X., Tian, Y., Pu, Z., Wang, Y., Li, C., Yi, Y., Wang, X., Liu, Q., 2023. Risk Assessment of Sudden Water Pollution Accidents Associated with Dangerous Goods Transportation on the Cross-Tributary Bridges of Baiyangdian Lake. *Water*, 15(16), 2993. DOI:10.3390/w15162993.
- Yang, Z.,** Han, L., Liu, Q., Li, C., Pan, Z., Xu, K., 2022. Spatial and temporal changes in wetland in Dongting Lake Basin of China under long time series from 1990 to 2020. *Sustainability*, 14(6), 3620. DOI:10.3390/su14063620
- Yang, Z.,** Liu, S., Liu, L., Liu, Z., Wang, Y., Li, C., Yi, Y., Wang, X., Liu, Q., 2023. A review of the global water resources under climate and land use changes in the past thirty years of research. *npj Clean Water*. (Under review)
- Yang, Z.,** Li, X., Li, C., Wang, J., Pu, Z., Wang, Y., Pi, C., Yi, Y., Wang, X., Liu, Q., 2023. A novel method for determining the optimal allocation of dynamic water environmental capacity. *Journal of Hydrology*. (Under review)
- Li, C., Wang, Y., **Yang, Z.,** Yi, Y., Wang, X., Liu, Q., Review of reservoir carbon cycle research: influence mechanism and research methods. *Journal of Hydrology*. (Under review)
- Yang, Z.,** Liu, S., Li, C., 2023. 黄河流域 DOC(Degree thesis on process) 还没想好做啥，先想个题目放上去
- Yang, Z.,** Mao D., 2019. Spatial and temporal variation characteristics and causes of water quality in the middle and lower reaches of Xiangjiang River. *Environmental Engineering Branch of the Chinese Society of Environmental Science*, 360–364. DOI: 10.26914/c.cnkihy.2019.071207.
- Yang, Z.,** Mao, D., Wang, J., 2020. Comprehensive Evaluation and Causes of Xiangjiang Water Quality in Xiangtan City. *China Resources Comprehensive Utilization*, 38 (03), 62–64.

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## RESEARCH EXPERIENCES

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The Open Fund of State Key Laboratory of Remote Sensing Science Project (12800-310430011), Host, 2022.05–2023.12.  
Summer School Course: Frontiers of Geography–Carbon Neutrality and Climate Change, Peking University, 2023.  
Summer School Course: Theory and Methods of Land Surface Remote Sensing Inversion, Beijing Normal University, 2022.  
First Conference on World Geography, Oral Presentation on “A review of research progress on water resources under global climate change and land use change”, November 2022.  
The 6<sup>th</sup> River and Lake Ecological Forum, Oral Presentation on “ Evaluation and source apportionment of heavy metal pollution in plain river sediments”, May 2022.  
Provincial Innovation and Entrepreneurship Project for College Students: The Spatiotemporal Change Characteristics and Driving Mechanisms of Wetlands in the Dongting Lake Basin, 2020.  
Provincial Innovation and Entrepreneurship Project for College Students: Integrated Media Communication and Image Construction of the Ancient Tea Horse Road in Anhua, Hunan under the “Belt and Road” Strategy, 2019.  
Provincial Innovation and Entrepreneurship Project for College Students "Cultural and Creative Industry Location Model and Hunan Demonstration", 2018.  
National College Student World Heritage Protection Proposal Competition, Host, 2018.09–2018.11, Nominate.

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## SELECTED HONORS AND AWARDS

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The 18<sup>th</sup> National Graduate Students Environmental Forum Award, Individual, 2023.  
First Place Fellowship, Beijing Normal University, Individual, 2023.  
The Best Researcher Award, International Research Awards on Network Science and Graph Analytics, Individual, 2023.  
Excellent Graduate Award, Hunan Province in China, Individual, 2021.  
Outstanding Graduation Thesis Award, Hunan Province in China, Individual, 2021.  
The 5<sup>th</sup> China Universities Geography Science Exhibition Competition, Bronze Award in South China, Host, 2021.  
National Top 100 College Student Summer Practice Team Award, Deputy Director, 2018.  
National College Students' Innovative Entrepreneurial Training Plan Program, Bronze Award in Hunan Province, 2018.  
First Place Fellowship, Hunan Normal University, Individual, 2017, 2018, 2019.