# ZHIMIN YANG [杨志敏]

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#### -PROFESSIONAL SUMMARY-

#### **Research Interest**

Hydrologic Cycle, Carbon Cycle, Ecosystem Ecology, Plant Eco-physiology, Climate Change **Professional Competence** 

ArcGIS, R, MATLAB, Remote Sensing, Hydrological Modeling, SPSS

## EDUCATION & ACADEMIC PERFORMANCE

**Master of Hydrology and Water Resources** 

Beijing Normal University, Beijing, China

**GPA:** 3.80/4.00 **Rank:** 1st out of 96 students (Top 1%)

Sept. 2021-Jun. 2024

**Thesis:** Research on the characteristics of greenhouse gas emissions in the upper Yellow River basin and their potential association with dissolved organic matter composition

Main courses:

Application and Development of Spatial Analysis Technology in Environment: A+ (Score: 96/100)

Water Quality Model and Simulation: A+ (Score: 96/100)

Science of Hydrology and Water Resources: A (Score: 94/100) Environmental Forensics: A (Score: 94/100)

Comparison of Environmental Issues between China and America: A+ (Score: 95/100)

**Bachelor of Geographical Science** 

Hunan Normal University, Changsha, China

**GPA:** 4.25/5.00

**Rank:** 1st out of 84 students (Top 1%)

Sept. 2017-Jun. 2021

Thesis: Runoff and sediment yield process of two typical herbs on red soil slope under simulated rainfall

Main courses:

Meteorology and Climatology: A+ (Score: 95/100)

Soil Geography: A+ (Score: 95/100)

Geology and Geomorphology: A+ (Score: 95/100)

Economic Geography: A (Score: 94/100)

Phytogeography: A (Score: 91/100)

Professional English: A+ (Score: 97/100)

Language: Chinese, English

TOEFL iBT: 98 (MyBest Scores: 102)

## 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. https://doi.org/10.1016/j.jhydrol.2022.128827
- 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. https://doi.org/10.1016/j.ecolind.2023.110903
- 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. https://doi.org/10.1016/j.chemosphere.2023.139119
- Yang, Z., Li, X., Li, C., Pu, Z., Hu, J., Wang, X., Liu, Q., Yi, Y. 2024. An integrated framework for water assimilative capacity allocation based on environmental fairness-efficiency tradeoffs with a modified optimization model in a river basin. Environmental Modelling & Software. (In Press)

#### https://doi.org/10.1016/j.envsoft.2025.106503

- 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. <a href="https://doi.org/10.3390/su14063620">https://doi.org/10.3390/su14063620</a>
- 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. <a href="https://doi.org/10.3390/w15162993">https://doi.org/10.3390/w15162993</a>
- Li, C., Yang, Z., Zhou X., Liu, L., Liu, L., Wang, X., Yi Y., Liu, Q. 2024. A review of the global water resources under climate and land use changes in the past thirty years of research. Earth's Future. (Under Review, Submission ID: 2024EF005837)
- Liu, Y., Ma, Y., Li, T., Xiao, P., Long, Y., Lei, M., Yang, Z., Duan, J., Nie, X., Li, Z., 2025. Regulation mechanism of stolon and erect grass on surface—subsurface flow coupled erosion. **Journal of Hydrology**. 650, 132499. https://doi.org/10.1016/j.jhydrol.2024.132499

## -RESEARCH EXPERIENCES-

- ❖ National Project: The Open Fund of the State Key Laboratory of Remote Sensing Science (No. 12800-310430011), Project Leader, May 2022–December 2023.
- ❖ The First Conference on World Geography—Oral Presentation: A Review of Research Progress on Water Resources Under Global Climate Change and Land Use Change, November 2022.
- Summer School Course: Theory and Methods of Land Surface Remote Sensing Inversion, Beijing Normal University, 2022.
- ❖ Summer School Course: Frontiers of Geography–Carbon Neutrality and Climate Change, Peking University, 2023.
- The 18th National Graduate Students Environment Forum—Oral Presentation: Combining PMF and Unmix Models for Characterizing Source-Specific Ecological Risks of Heavy Metals in Plain River Sediments, May 2023.
- ❖ The 6th River and Lake Ecological Forum—Oral presentation: Evaluation and Source Apportionment of Heavy Metal Pollution in Plain River Sediments, May 2022.
- ❖ Provincial Innovation and Entrepreneurship Project: The Spatiotemporal Change Characteristics and Driving Mechanisms of Wetlands in the Dongting Lake Basin, 2020.

#### =SELECTED HONORS AND AWARDS=

- ❖ Baosteel Scholarship, 2023 (Top 0.002% nationwide, 500 annual awards for PhD/master's/undergraduates students in China)
- ❖ National Scholarship, 2023 (Top 0.4% nationwide, 12,000 annual recipients in China)
- First-Class Scholarship, Beijing Normal University, 2023, 2022 (Rank No.1 in major, GPA: 3.80/4.00)
- ❖ Bronze Award, the 5th China Universities Geography Science Exhibition Competition (Top 30% nationally), South China, Team Leader, 2021
- ❖ Outstanding Graduate of Hunan Province, 2021 (Top 1% of Hunan Province)
- National College Student Summer Practice Team Award (Top 100), Associate Team Leader, 2019
- ❖ Top 100 Practice Teams, the 5th Search for National College Students' Summer Practice Teams, 2019
- ❖ Second Prize, the 10th National Olympic English Essay Contest, 2015 (Top 0.5%–2% nationwide)
- ❖ First Prize, the 9th National "Earth Little Doctor" Geographic Science Popularization Knowledge Contest, 2015 (Top 0.5%–1% nationwide)

# INFORMATION FOR REFEREES

## Referee 1

Academic Affiliation:

Professor Chunhui Li, PhD

School of Environment, Beijing Normal University

Email: <a href="mailto:chunhuili@bnu.edu.cn">chunhuili@bnu.edu.cn</a>
Phone: (+86) 13691404007

Relationship with applicant:

Graduate Supervisor during 2021–2024 [Master's Project]

Co-author of 6 peer-reviewed papers

#### Referee 2

Academic Affiliation:

Associate Professor Haiyang Chen, PhD

College of Water Sciences, Beijing Normal University

Email: <a href="mailto:chen.haiyang@bnu.edu.cn">chen.haiyang@bnu.edu.cn</a>

Phone:+86 13911651987

Relationship with applicant:

Research Advisor and Course Instructor during 2021–2024 [Master's Project]

Co-author and corresponding author of 1 peer-reviewed paper

Instructor for the specialized course Environmental Forensics