



INDIANA UNIVERSITY BLOOMINGTON

Prof. Zhiying Li's Hydroclimatology Group is actively seeking 1-2 motivated Ph.D. students to join her team. The starting dates will be Fall 2024. The positions are fully funded, providing support for tuition fee, stipends, and research-related expenses. Women and underrepresented groups are highly encouraged to apply.

Bio of Dr. Zhiying Li

Dr. Zhiying Li is a tenure-track assistant professor at the O'Neill School of Public and Environmental Affairs at Indiana University Bloomington starting Fall 2023. Before that, she worked as a postdoctoral research associate at Dartmouth College. She holds a Ph.D. degree in geography from the Ohio State University. As a broadly trained physical geographer with a specialization in hydroclimatology, her research centers on fundamental and applied questions in the interrelations among climate, water, and people. Specifically, she seeks to provide a comprehensive understanding of variability, drivers, and impacts of two representations of changes in the water cycle in a warming world: (1) hydroclimatic extremes such as drought and flooding, and (2) water availability. She uses a wide range of approaches including process-based hydrologic models, hydrologic theory, fully coupled Earth System Models, spatiotemporal statistical modeling, machine learning, big data, GIS, and remote sensing. For more information, please refer to her professional website <https://zhiyingli-geo.com/> or her google scholar profile (<https://scholar.google.com/citations?user=WfPjnowAAAAJ&hl=en>).

Candidate qualifications

Minimum qualifications:

- A Bachelor's degree in a related field, such as Environmental Science, Geography, Hydrology, Climatology, Civil Engineering, Water Resources, or a related discipline.
- Proficiency in basic scripting/programming languages such as Python, R, MATLAB, or similar.
- Good English writing and communication skills.
- A keen interest in scientific research in hydroclimatology and strong enthusiasm for continuous learning.

Preferred qualifications:

- A Master's degree in the related fields.
- Excellent analytical and modeling skills, including prior experience in processing and analyzing multi-scale geospatial datasets, applications of process-based hydrologic models and Earth System Models, or applications of ML techniques.
- Publications in peer-reviewed journals.
- A keen interest in scientific research in hydroclimatology and strong enthusiasm for continuous learning.

Application Instructions

Please send Dr. Zhiying Li (zl68@iu.edu) an email including details about your research experience in climate and hydrology, your curriculum vitae (CV), unofficial transcripts, and, if applicable, your TOEFL score as a non-native English speaker.

Details about the Ph.D. program in Environmental Science and admission requirements at O'Neill School at IUB can be found at <https://oneill.indiana.edu/doctoral/degrees/environmental-science.html>. Applications open September 1, 2024, and end on January 1, 2025.