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, 2023, and end on January 1, 2024.

About IUB
Founded in 1820, Indiana University Bloomington (IUB) is the flagship campus of IU's seven campuses and two regional centers statewide. It was ranked No. 72 in National Universities according to the 2023 U.S. News Rankings. IUB, located in Bloomington, IN, is a Carnegie Foundation Research University with "very high research activity" (R1). Nestled in the rolling hills of southern Indiana, IU Bloomington showcases the kind of landscape you'd expect from the quintessential college campus. Bloomington also ranks as one of the nation's best places to live, study, and visit.