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Luwen Wan

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Bio

BIO

Luwen is a Postdoctoral Fellow with the Stanford Institute for Human-Centered Artificial Intelligence, working with Dr. Kate Maher, Professor at Stanford University in the Department of Earth System Science. Her postdoctoral research focuses on developing tools for tracking the recovery and activity of the North American beaver from a computer version and evaluating beaver as a tool for fostering sustainable waterways. She received her Ph.D. in Earth and Environmental Science from Michigan State University, where she worked on nutrient transport modeling across the Great Lakes Basin and agricultural tile drainage mapping across the US Midwest region.

INSTITUTE AFFILIATIONS

• Postdoctoral Fellow, Institute for Human-Centered Artificial Intelligence (HAI)

STANFORD ADVISORS

• Kate Maher, Postdoctoral Faculty Sponsor

LINKS

• Google Scholar: https://scholar.google.com/citations?user=JOQbhegAAAAJ&hl=en

Publications

PUBLICATIONS

- Important Role of Overland Flows and Tile Field Pathways in Nutrient Transport. Environmental science & technology Wan, L., Kendall, A. D., Martin, S. L., Hamlin, Q. F., Hyndman, D. W. 2023
- The land use legacy effect: looking back to see a path forward to improve management *ENVIRONMENTAL RESEARCH LETTERS* Martin, S. L., Hamlin, Q. F., Kendall, A. D., Wan, L., Hyndman, D. W. 2021; 16 (3)
- The effects of landscape pattern evolution on runoff and sediment based on SWAT model ENVIRONMENTAL EARTH SCIENCES Zhang, Z., Chen, S., Wan, L., Cao, J., Zhang, Q., Yang, C. 2021; 80 (1)
- Impacts of international trade on global sustainable development *NATURE SUSTAINABILITY* Xu, Z., Li, Y., Chau, S. N., Dietz, T., Li, C., Wan, L., Zhang, J., Zhang, L., Li, Y., Chung, M., Liu, J. 2020; 3 (11): 964-971
- Impacts of Climate Change and Human Activities on the Surface Runoff in the Wuhua River Basin *SUSTAINABILITY* Zhang, Z., Wan, L., Dong, C., Xie, Y., Yang, C., Yang, J., Li, Y.

2018; 10 (10)

• Total Nitrogen and Total Phosphorus Pollution Reshaped the Relationship Between Water Supply and Demand in the Huaihe River Watershed, China CHINESE GEOGRAPHICAL SCIENCE

Lu, Y., Liu, L., Qin, F., Wang, J., Liu, J., Li, Y., Wan, L. 2023

- Exploring resilience interactions and its driving forces in the land-water-biodiversity nexus at the watershed scale *WATER SUPPLY* Li, Q., Zhang, Z., Li, C., Wan, L., Yang, Y. 2023; 23 (5): 2081-2104
- Ecosystem Services under Climate Change Impact Water Infrastructure in a Highly Forested Basin *WATER* Li, X., Zhang, L., J. O'Connor, P., Yan, J., Wang, B., Liu, D., Wang, P., Wang, Z., Wan, L., Li, Y. 2020; 12 (10)
- Spatially explicit quantification of the interactions among ecosystem services *LANDSCAPE ECOLOGY* Li, Y., Zhang, L., Qiu, J., Yan, J., Wan, L., Wang, P., Hu, N., Cheng, W., Fu, B. 2017; 32 (6): 1181-1199