

熊吕阳

讲师，硕士生导师。主要从事水文-生态-环境-农业多过程模拟及模型开发、基于模拟过程-优化算法的水资源优化配置与用水协同优化等方面的教学与研究工作，近年来主持国家自然科学基金项目 1 项、江西省自然科学基金项目 1 项，在本领域国内外顶级或重要科技期刊上发表学术论文 10 篇。

电子邮箱：xionglvyang@ncu.edu.cn



教育经历

- (1) 2015.09-2021.11, 中国农业大学, 水利工程, 博士 (硕博连读)
- (2) 2011.09-2015.07, 中国农业大学, 农业水利工程, 学士

工作经历

- (1) 2021.12 至今, 南昌大学, 工程建设学院, 讲师

代表性科研项目 (限 5 项):

- (1) 国家自然科学基金青年基金项目, 52209058, 基于水转化多过程的灌区面源污染模拟与调控研究, 2023.01-2025.12, 主持
- (2) 江西省自然科学基金青年基金项目, 20232BAB214087, 基于水转化多过程的鄱阳湖流域面源污染模拟与调控研究, 2023.07-2026.06, 主持
- (3) “十三五”国家重点研发计划项目, 2017YFC0403300, 农田节水减排控盐技术与应用, 2017.01-2020.12, 参与
- (4) 国家自然科学基金重点项目, 51639009, 灌区节水的生态环境效应与高效用水调控, 2017.01-2020.12, 参与
- (5) 国家自然科学基金面上项目, 51679235, 地下水浅埋干旱灌区农业节水的水文生态效应及优化调控研究, 2017.01-2020.12, 参与

代表性科研成果 (限 10 项):

- (1) **Xiong Lvyang**, Jiang Yao, Li Xinyi, Ren Dongyang, Huang Guanhua*. Long-term regional groundwater responses and their ecological impacts under agricultural water saving in an arid irrigation district, upper Yellow River basin. *Agricultural Water Management*, 2023, 288: 108493.
- (2) Wang R, **Xiong Lvyang**, Xu Xu, Liu Sheng, Feng Ziyi, Wang Shuai, Huang Quanzhong, Huang Guanhua*. Long-term responses of the water cycle to climate variability and human activities in a large arid irrigation district with shallow groundwater: Insights from agro-hydrological modeling. *Journal of Hydrology*, 2023, 626: 130264.
- (3) Jiang Yao, Xu Zongxue*, **Xiong Lvyang**. Runoff variation and response to precipitation on multi-spatial and temporal scales in the southern Tibetan Plateau. *Journal of Hydrology: Regional Studies*, 2022, 42: 101157.

- (4) **Xiong Lvyang**, Xu Xu*, Engel Bernard, Xiong Yunwu, Huang Quanzhong, Huang Guanhua*. Predicting agroecosystem responses to identify appropriate water-saving management in arid irrigated regions with shallow groundwater: Realization on a regional scale. *Agricultural Water Management*, 2021, 247: 106713.
- (5) **Xiong Lvyang**, Xu Xu, Engel Bernard, Huang Quanzhong, Huo Zailin, Xiong Yunwu, Han Wenguang, Huang Guanhua*. Modeling agro-hydrological processes and analyzing water use in a super-large irrigation district (Hetao) of arid upper Yellow River basin. *Journal of Hydrology*, 2021: 127014.
- (6) Jiang Yao, **Xiong Lvyang**, Xu Zongxue*, Huang Guanhua. A simulation-based optimization model for watershed multi-scale irrigation water use with considering impacts of climate changes. *Journal of Hydrology*, 2021: 126395.
- (7) Jiang Yao, **Xiong Lvyang**, Yao F, Xu Zongxue*. Optimizing regional irrigation water allocation for multi-stage pumping-water irrigation system based on multi-level optimization-coordination model. *Journal of Hydrology X*, 2019, 4: 100038.
- (8) **Xiong Lvyang**, Xu Xu*, Ren Dongyang, Huang Quanzhong, Huang Guanhua. Enhancing the capability of hydrological models to simulate the regional agro-hydrological processes in watersheds with shallow groundwater: Based on the SWAT framework. *Journal of Hydrology*, 2019, 572: 1-16.
- (9) 姜瑶, 颜泽文, 黎良辉, 闫峰, **熊吕阳***. 灌区用水优化模型参数全局敏感性分析与不确定性优化. *农业机械学报*, 2023, 54(07): 372-380.
- (10) 姜瑶, **熊吕阳**, 姚付启*. 基于两层协调模型的多级扬水灌区供水调配优化. *农业机械学报*, 2019, 50(05): 310-319.