

Qingfeng Zhang

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EDUCATION BACKGROUND

PhD. in School of Water Resources and Hydropower Engineering, Wuhan University 2024-Now

Supervisors: Prof. Jiyun Song

B.Eng. in Hydrology and Water Resources Engineering, Northwest A&F University 2020-2024

Supervisors: Prof. Yi Li

The first ranked professional in the overall results of the exemption examination, exempted to Wuhan University to study for PhD degree in the field of hydrology and water resources.

Bachelor's thesis was selected as one of the top 100 papers of the university.

JOURNAL PUBLICATIONS (*: Corresponding author)

1. **Zhang Q**, Li Y*, Hu Q, Yao N, Song X, Liu F, Pulatov B, Meng Q, Feng P. 2022. Impacts of Different Socioeconomic Development Levels on Extremely Wet/Dry Events in Mainland China. *Water*, 14(23): 3950.

<https://doi.org/10.3390/w14233950>.

COMPETITION AWARDS

1. China Engineering Robotics Competition and International Open Competition 2022, **National First Prize and Third Runner-up**, Chinese Society of Artificial Intelligence, 2022.12.

2. The Eighth National College Students' Water Resources Innovation Design Competition. **National Level Grand Prize**, China Water Resources Education Association, 2023.8. 3.

3. Huawei Cup 2nd National College Students' Innovation Design Competition in Agricultural Water Conservancy Engineering and Related Specialties, **National Level Grand Prize**, China Agricultural Engineering Society, 2021.11. 4.

4. 2021 China Engineering Robotics Competition and International Open Competition, **National Second Prize**, Chinese Society of Artificial Intelligence, 2021.11.

5. National University Students' Surveying and Mapping Skills Competition (Non-specialized Group of Surveying and Mapping Programming Competition), 2022. **National Second Prize**, China Association of Surveying and Mapping, 2021.05. 6.

6. 2022 Mathematical Contest In Modeling, **International Honorable Mention**, the Consortium for Mathematics and Its Application, 2022.2. Application, 2022.2. 7.

7. 2021 China Engineering Robotics Competition and International Conference on Robotics. 2021 China Engineering Robotics Competition and International Open Competition, **National Second Prize**, Chinese Society for Artificial Intelligence, 2021.11. 8.

8. The 12th Blue Bridge Cup National Software and Information Technology Professionals Competition. **Provincial Second Prize**, Talent Exchange Center of Ministry of Industry and Information Technology, 2021.05

9. The 14th National Student Mathematics Competition (Non-Mathematics). **Provincial First Prize**, Chinese Mathematical Society, 2023.01

10. 2022 National College Robotics Competition (Robomasters) College League Competition and Sectional Competition. **Third Prize National Level**, Chinese Society of Artificial Intelligence, 2022.07

SCIENCE AND INNOVATION PROJECTS

1. **Provincial Level: Cumulative Effects of Hydrology and Ecology in the Yellow River Basin (Chair, 2022-2023, completed)**

Innovations: Through this project, the coupling effect between hydrology and ecosystem in the Yellow River Basin will be revealed, the role and dynamic feedback principle between the water cycle process and the ecosystem will be clarified, and the large-scale hydrological and ecological cumulative effect model in the basin will be established.

My contribution: Responsible for downloading, processing and analyzing remote sensing data, modeling and writing English papers.

2. Provincial Level: Development and Design of Robot Visual Aid System (Participation, 2021-2022, Excellent completion)

Innovation: This research proposes to develop and design a robot visual assistance system through OpenCV, which can be used in discipline competitions such as Robomaster Mecha Masters, as well as in practical application scenarios such as agricultural picking robots, with high research and practical value.

My Contribution: Responsible for programming and debugging of visual recognition under Linux system.

3. Provincial Level: Water and Food Big Data Platform (Participation, 2021-2022, good completion)

Innovation: Based on the big data platform, present the spatial and temporal evolution characteristics of total water consumption and water use efficiency in regional food production, and analyze and evaluate them to provide scientific basis for the management of water use in food production.

My contribution: Responsible for the maintenance of the big data platform and database construction.

SKILLS

Software: MATLAB, Origin, Python, C++, R, ArcGIS, CAD

Language: Chinese (native), English (CET-4: 550, CET-6: 536)