Zhiyu Zhang

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Male, Born in Oct. 1998, Xi'an, Shaanxi, China
Personal website: https://zhiyu014.github.io/

Education

- Joint PhD City University of Hong Kong Environment 09/2024-07/2026
- MD-PhD Tongji University Environmental Engineering 09/2020-07/2026
- Bachelor's degree Tongji University Environmental Engineering 09/2016-06/2020

Awards

- Postgraduate: Asaint (2023-2024) & Outstanding Student (2022-2023) Scholarship
- Undergraduate: Social Activity (2018-2019) & Outstanding Student (2nd, 2016-2017)

Featured Research (10+ papers published, 5 as primary/corresponding author)

1. **Zhang, Z.**, Tian, W. and Liao, Z. 2023. Towards coordinated and robust real-time control: a decentralized approach for combined sewer overflow and urban flooding reduction based on multi-agent reinforcement learning. **Water Research**
2. **Zhang, Z.**, Tian, W., Lu, C. and Liao, Z., and Yuan, Z. 2024. Graph neural network-based surrogate modelling for real-time hydraulic prediction of urban drainage networks. **Water Research**

Conferences

1. Best Oral Presentation, 2023 International Symposium on Sustainable Urban Drainage, Jiashan. "Graph neural network-based surrogate modelling for hydraulic prediction of urban drainage hydrodynamics"
2. Poster, 13th IWA Conference on Instrumentation, Control and Automation, Beijing, 2022. "Multi-agent reinforcement learning applications in the real-time control of an urban drainage system"

Project & Internship

1. General Project by NSFC "Research on Real-time Control of Overflow Pollution in Combined Sewer System on Rainy Day Based on Reinforcement Learning", 5+ SCI
2. Subtask of Key Research Project "Research on integrated display technology of water environment in Taihu Basin based on 3D visualization", Secretary
3. Shanghai Water Planning and Design Institute "Research on Rainwater Drainage Planning Method of Self-drainage Area Based on GIS and SWWM" Software Copyright.
4. Assistant Water Resources Engineer Ewaters (Shanghai) 2020/06-2020/09
   Data processing and report drafting in stormwater and water environment projects
5. Student Innovation Program "Pipeline Leakage Location Based on Transient Flow Theory" Leader for major research work.

Skills

Language: IELTS (7.0); TOEFL (93); CET-6 (554); CET-4 (641)
Computer: Python; Tensorflow; Pytorch; ArcGIS/QGIS; SWMM; Office