**Curriculum Vitae**

**Jiang Mingtao**

Assistant Professor (Special-term Associate Professor)

Department of Civil Engineering Shanghai University

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**Date of Birth：20 February 1987**

**Research interests**

Dense jet, Environmental fluid mechanics, Coastal engineering, Sediment dynamics, Deep learning assisted scalar velocimetry

**Education background**

2014.01-2018.04 Nanyang Technological University, Singapore

PhD Civil engineering

2010.09-2013.06 Tongji University, China

 Master of Science Harbor, Coastal and Offshore Engineering.

2006.09-2010.06 Tongji University, China

Bachelor of Engineering Harbor, Waterway and Offshore Engineering

**WORK experience**

2020.05-now Shanghai University, Assistant Professor (Special-term Associate Professor)

2018.04-2020.05 Environmental Process Modelling Centre (EPMC) of Nanyang Environment & Water Research Institute (NEWRI), Research Fellow

2013.08-2014.01 DHI Centre of Nanyang Environment & Water Research Institute (NEWRI), Research Assistant

**Current grants**

1. National Natural Science Fund for Young Scholars, 2021-2023.
2. High level talent program of Shanghai, 2022-2024.

**Other Grants and participatING projects**

1. Zhejiang Natural Science Fund, Influence of island linking project and sea level rise on sediment transport mechanism in Zhoushan sea area, 2018-2020.

2. National Environment Agency and Keppel Seghers, Application of high-performance waste-to-energy incineration, 2018-2020.

3. Nanyang Technological University and Hyundai joint research center, Coastal hydraulic system for advanced design of intake & outfall facilities, 2016-2018.

**PUBLICATIONS**

1. **Jiang Mingtao**, Chen Wei, Adrian Wing-Keung Law\*. "Mixing characteristics of 45° inclined duckbill dense jets in co-flowing currents." Journal of Hydro-Environment Research. 36(2021), 116-128.

**2. Jiang Mingtao,** Adrian C. H. Lai and Adrian Wing-Keung Law\*. "Solid Waste Incineration Modelling for Advanced Moving Grate Incinerators." Sustainability. 12(2020), 8007.

3. **Jiang Mingtao**, Adrian Wing-Keung Law\*, and Song Jie. "Mixing characteristics of inclined dense jets with different nozzle geometries." Journal of Hydro-Environment Research. 27(2019), 116-128.

4. **Jiang Mingtao**, Adrian Wing-Keung Law\*, and Adrian C.H. Lai. "Turbulence characteristics of 45°inclined dense jets." Environmental Fluid Mechanics. 19 (2019), 1-28.

5. **Jiang Mingtao**, and Adrian Wing-Keung Law\*. "Mixing of swirling inclined dense jets–A numerical study." Journal of Hydro-environment Research. 21 (2018), 18-130.

6. **Jiang Mingtao**, Adrian Wing-Keung Law\*, and Zhang Shuai. "Mixing Behavior of 45°Inclined Dense Jets in Currents." Journal of Hydro-environment Research. 18 (2017), 37-48.

7. Chen Wei, Mao Chenhao, He Lulu, **Jiang Mingtao**\*. "Sea level rise impacts on the saline water intrusion and stratification of the Yangtze Estuary." Journal of Coastal Research, 95(sp1) 2020,1395-1400.

8. Zhang Shuai, Adrian Wing-Keung Law\*, and **Mingtao Jiang**. "Large eddy simulations of 45°and 60° inclined dense jets with bottom impact." Journal of Hydro-environment Research. 15 (2017), 54-66.

9. Jie Song, **Mingtao Jiang**, Myung Eun Lee, Adrian Wing-Keung Law\*. "Study on horizontal jets with buoyancy in shallow waters." Desalination and water treatment. 185 (2020), 111-123.

10. Shen Liangduo, Gui Qinqin, Zou Zhili, He Lulu, Chen Wei\*, **Jiang Mingtao**. "Experimental study and numerical simulation of mean longshore current for mild slope." Wave Motion, 2020, 99(5–6):102651.

11. Qian Gong, **Ming Tao Jiang**\*, Cong Li Pang, Xi JiangZhang, Xiang Yu Chen, Yun Lin Ni. "Wave energy reflection by the Bragg breakwater composed of rectangular bars on the horizontal permeable seabed." Energy Reports, 2022, 8: 566-573.