

## Huijie Wu

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### EDUCATION

#### University of Missouri

09/2019-12/2023

- **Degree:** Master of Engineering

Expected in December 2023

- **Major:** Civil and Environmental Engineering

GPA: 3.975 /4

#### Beihang University

09/2015- 03/2018

- **Degree:** Master of Engineering

- **Major:** Power Engineering and Engineering Thermophysics

GPA: 88.45 /100 (5%)

#### Nanjing University of Aeronautics and Astronautics

06/2011-06/2015

- **Degree:** Bachelor of Engineering

- **Major:** Thermal Energy and Power Engineering

GPA: 90 /100

Rank: Top 2/60 students

### Publication

- **Huijie Wu**, Binbin Wang, Daniela Di Lorio, Mahdi Razaz. Effect of zero-mean-shear turbulence on rise velocity of in-chain bubbles from marine natural seeps, Ocean Engineering, Volume 280, July 2023.
- **Huijie Wu**, Spectral turbulence kinetic energy budget and scale-based velocity decomposition for turbulence in bubble plumes, Physics of Fluids, Volume 35, June 2023.
- **Huijie Wu**, Binbin Wang, Anusha L. Dissanayake. Dynamics of Underwater Gas Blowout in Sonic Regime: Laboratory-Scale Study, Journal of Hydraulic Engineering. Volume 149, January 2023.
- **Huijie Wu**, Binbin Wang, Steven F. DiMarco, Lei Tan, Impact of bubble size on turbulent statistics in bubble plumes in unstratified quiescent water, International Journal of Multiphase Flow,
- Binbin Wang, **Huijie Wu**, Xiu-feng Wan. Transport and fate of human expiratory droplets-A modelling approach, Physics of Fluids, Volume 32, August 2020.
- Geng Li, Binbin Wang, **Huijie Wu**, Steven F. DiMarco. Impact of bubble size on the integral characteristics of bubble plumes in quiescent and unstratified water, International Journal of Multiphase Flow, Volume 125, April 2020.
- Zhi Tao, **Huijie Wu**, Haiwang Li, Ruquan You, Gangfu Li. Rotation correction of wall function and velocity structure under the couple effects of buoyancy force and rotating effects at the entry section of the smooth straight channel, International Journal of Heat and Fluid flow, Volume 78, August 2019.
- Kuan Wei, Zhi Tao, **Huijie Wu**, Guoqiang Xu, Haiwang Li, Ruquan You. Interaction between the primary flow fields and the secondary flow fields under rotating condition, Experimental Thermal and Fluid Science, Volume 84, June 2017.

### Presentation

- **Huijie Wu**, Binbin Wang, Daniela De Lorio, Mahdi Razaz, Effect of turbulence on the rise velocity of natural seep bubbles, Hydraulic Measurements & Experimental Methods Conference, Fort Collins, CO, June 2023.
- **Wu Huijie**, Wang Binbin, Li Geng, S.F. DiMarco, Impact of bubble size on the budget of turbulent kinetic energy and mean flow structure in a bubble plume. In Gulf of Mexico Oil Spill & Ecosystem Science Conference2020. Tampa, FL, February 2020.

### HONORS&AWARDS

- Departmental graduate fellowship of University of Missouri-Columbia 2019~2020
- Excellent graduate of Beihang University 05/2018
- 2<sup>nd</sup> class Academic Scholarship of Beihang University 09/2015, 09/2016
- 1<sup>st</sup> Scholarship for outstanding students, Nanjing University of Aeronautics and Astronautics 11/2013
- 11/2014
- National Scholarship, Nanjing University of Aeronautics and Astronautics 11/2013
- 3rd prize in the 9th National Zhou Peiyuan Competition on Mechanics 08/2013

- 3rd prize in the 1st Mechanics Competition of Nanjing University of Aeronautics and Astronautics  
04/2013

### **PROFESSIONAL SKILLS**

- **Skills:** MATLAB, Particle Image Velocimetry, Hot Wire Anemometry, Acoustic Doppler Velocimetry, Experimental facility setup for fluid mechanics.