

## Yanzhang Xu

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### EDUCATION

- |   |              |
|---|--------------|
| <b>Northeastern University, Boston, U.S.</b>  | 2020-present |
| Ph.D. student & Research Assistant in Mechanical Engineering  |              |
| Leave of absence due to student visa denial under P.P. 10043  |              |
| Research: <i>Mechanical performance of composite materials.</i>   |              |
| <b>Shanghai Jiao Tong University, Shanghai, China</b>   | 2017-2020    |
| M.S. in Naval Architecture and Ocean Engineering  |              |
| Thesis: <i>Numerical investigation of the solitary wave interacting with submerged plate by MPS-FEM method.</i> |              |
| <b>Huazhong University of Science and Technology, Wuhan, China</b>  | 2013-2017    |
| B.S. in Naval Architecture and Ocean Engineering  |              |
| Thesis: <i>Vortex-induced vibration of rise.</i>  |              |
| <b>Wuhan University, Wuhan, China</b>   | 2014-2017    |
| Dual B.S. in Economy  |              |
| Thesis: <i>The cluster study of the second-board market in China.</i>   |              |

### PUBLICATIONS

1. **Yanzhang Xu** and Yaning Li. The numerical simulation of bio-inspired material growth under uni-axial tension (In preparation)
2. **Yanzhang Xu**, Richard Nash, and Yaning Li. Mechanics of Two-Phase Auxetic Chevron Mechanical Metamaterial (submitted).
3. **Yanzhang Xu**, Weiwen Zhao, Decheng Wan **(2020)**. MPS Method for Interaction between Solitary waves and submerged horizontal plate, *China Ocean Engineering*, 2020-06-07, Vol.34 (3), p.314-327.  
<https://doi.org/10.1007/s13344-020-0029-1>
4. **Yanzhang Xu**, Decheng Wan **(2020)**. Application of MPS-FEM method to numerical simulate the interaction between solitary wave and a vertical plate, *Chinese Journal of Hydrodynamics*, Vol. 35, No. 3, pp.346-355.
5. **Yanzhang Xu**, Guanyu Zhang, Decheng Wan, Gang Chen. MPS Method for Study of Interactions between Solitary Wave and Submerged Horizontal Plate, *Proceedings of the Twenty-ninth (2019) International Ocean and Polar Engineering Conference*, Honolulu, Hawaii, U.S., June 16-21,2019.

### HONORS AND AWARDS

- Scholarship of Academic Excellence in Shanghai Jiao Tong University. 2017-2020
- Scholarship of Academic Excellence in Huazhong University of Science and Technology. 2013-2017

### **ACADEMIC ACTIVITIES**

- APS March meeting 2022, Chicago, IL, U.S. 2022
- APS March meeting 2021, online. 2021
- International Ocean and Polar Engineering Conference, Honolulu, Hawaii, U.S. 2019
- Workshop of turbulent flow at Tsinghua University, China. 2019
- World maritime technology conference, Shanghai, China. 2018
- Mechanics summer school at Chinese Academy of Sciences, China. 2016

### **SKILLS**

- Software: ABAQUS, OpenFOAM, ANSYS
- Programming: Python, Matlab, C++, Linux.
- Language: Mandarin, English