

# Yicong Zhong

## Johns Hopkins University

[yzhong13@jhu.edu](mailto:yzhong13@jhu.edu);

### EDUCATION

The Johns Hopkins University 2017-present

- M.S. in Mechanical Engineering

China University of Petroleum, Qingdao, China 2013- 2017

- B.Eng. in Energy and Power engineering

### INTERNSHIP

Internship in thermal energy department of SINOPEC 01/2017~03/2017

- Coordinated with other employees to function the thermal management of petroleum processing

### RESEARCH EXPERIENCE

#### Research in the Separation of Oil/Water Two Phase Flow

- Designed a tube structure that can enhance the oil/water ratio of oil/water two phase flow from 10% to 100% with the aid of numerical simulation in finite volume method
- Shape optimization with orthogonal array

#### Experience in Micro/Nano Heat Transfer Laboratory, China Univ. of Petroleum

- Research assistant in Micro/Nano heat transfer Laboratory
- Maintained the departmental work station and Microscope in the Lab

#### Experience in Enhanced Heat Transfer Laboratory

- Conducted Enhanced Heat Transfer experiments exploring the Nussle number of multi-phase flow in multiple innovative tube structures

#### Independent Innovative Project of China Univ. of Petroleum

- Transmitted a tube model from micro scale for solid particle separation to regular scale for separation two-phase liquid flow and verified by numerical simulations
- Applied two patents on tube structure for phase separation

### SKILLS

- **Computer Skills:** C, Matlab, Microsoft Office, ANSYS Fluent, ICEM, CFX, Workbench, Gambit, AutoCAD, Solidworks, Mathematica
- **Languages:** English, proficient; Chinese, native language