

EDUCATION	<b>The Hong Kong University of Science and Technology (Guangzhou)</b> Guangdong, China <i>MPhil in Earth, Ocean and Atmospheric Sciences</i> 2023 - 2025 (expected) <ul style="list-style-type: none"><li>• Advisor: Prof. Qing Li</li><li>• Co-advisor: Prof. Zhen Liu</li><li>• Research area: wave-turbulence interaction, Langmuir turbulence</li></ul> <b>Sichuan University</b> Sichuan, China <i>B.E. in Engineering Mechanics</i> 2018 - 2022 <i>Bachelor of Law</i> 2020 - 2022
INTERESTS	turbulent flows, wave-turbulence interaction, atmosphere-ocean dynamics
RESEARCH	<b>Wave-Turbulence Interactions by Direct Numerical Simulation</b> 2023.11 - Present <ul style="list-style-type: none"><li>• Examine the interactions between surface gravity waves and wind-driven shear currents by two-phase direct numerical simulation</li><li>• Analyze the wave-phase-related effects and the generation and evolution mechanism of Langmuir turbulence</li><li>• Quantify the air-sea exchange of mass and momentum</li></ul> <b>Temperature-Moisture Impact on Arctic Cloud Formation</b> 2022.11 - 2023.07 <ul style="list-style-type: none"><li>• Construct a semi-ideal case of mixed-phase clouds during the campaign of Physical Feedbacks of Arctic Boundary Layer, Sea Ice, Cloud and Aerosol</li><li>• Use large-eddy simulation to study the effects of temperature and moisture forcing on the structure and development of mixed-phase clouds</li></ul> <b>Hemodynamic Study Based on Oxygen Transport in the Portal Vein</b> 2021.10 - 2022.06 <ul style="list-style-type: none"><li>• Extract the structure of multiple human portal veins from CT images</li><li>• Adopt a mathematical model of blood and oxygen transport in portal vein</li><li>• Report the hemodynamic features and spatial distribution of oxygen</li></ul>
AWARDS & HONORS	<ul style="list-style-type: none"><li>• <b>Postgraduate Scholarship</b>, The Hong Kong University of Science and Technology (Guangzhou) 2023.09</li><li>• <b>Excellent Graduated Student Leader</b>, School of Architecture and Environment 2021.09</li><li>• <b>Comprehensive Scholarship</b>, Sichuan University 2021.09</li><li>• <b>Academic scholarship</b>, Law School 2021.06</li><li>• <b>Excellent Student Leader</b>, School of Architecture and Environment 2020.09</li><li>• <b>Third Prize of Mathematics competition of Chinese College Students</b>, Chinese Mathematical Society 2019.11</li><li>• <b>Second Scholarship</b>, Sichuan University 2019.09</li></ul>
SKILLS	<b>Languages:</b> Mandarin, English <b>Programming:</b> Python, C/C++, Fortran <b>Technical:</b> Linux, MATLAB, L <sup>A</sup> T <sub>E</sub> X, HTML
ACADEMIC EXPERIENCE	<b>Member:</b> European Geosciences Union, American Physical Society <b>Research Assistant:</b> Eastern Institute for Advanced Study (Advisor: Prof. Shengqi Zhang) 2022.10 - 2023.07