
EDUCATION	<p>The Hong Kong University of Science and Technology (Guangzhou) Guangdong, China <i>MPhil in Earth, Ocean and Atmospheric Sciences</i> 2023 - 2025 (expected)</p> <ul style="list-style-type: none">• Advisor: Prof. Qing Li• Co-advisor: Prof. Zhen Liu• Research area: wave-turbulence interaction, Langmuir turbulence <p>Sichuan University Sichuan, China <i>B.E. in Engineering Mechanics</i> 2018 - 2022 <i>Bachelor of Law</i> 2020 - 2022</p>
INTERESTS	turbulent flows, wave-turbulence interaction, boundary layer turbulence, cloud dynamics
RESEARCH	<p>Wave-Turbulence Interactions by Direct Numerical Simulation 2023.11 - Present</p> <ul style="list-style-type: none">• Examine the interaction between surface gravity waves and wind-driven shear currents by two-phase direct numerical simulation• Analyze the wave-phase-related effects and the generation and evolution mechanism of Langmuir turbulence• Quantify the air-sea exchange of mass and momentum <p>Temperature-Moisture Impact on Arctic Cloud Formation 2022.11 - 2023.07</p> <ul style="list-style-type: none">• Construct an semi-ideal case of mixed-phase clouds during the campaign of Physical Feedbacks of Arctic Boundary Layer, Sea Ice, Cloud and Aerosol• Use large-eddy simulation to study the effects of surface and moisture forcing on the structure and maintenance of mixed-phase clouds <p>Hemodynamic Study Based on Oxygen Transport in the Portal Vein 2021.10 - 2022.06</p> <ul style="list-style-type: none">• Extract the structure of multiple human portal veins from CT images• Adopt a mathematical model of blood and oxygen transport in portal vein• Report the characteristics of hemodynamic parameters and oxygen distribution
AWARDS & HONORS	<ul style="list-style-type: none">• Postgraduate Scholarship, The Hong Kong University of Science and Technology (Guangzhou) 2023.09• Excellent Graduated Student Leader, School of Architecture and Environment 2021.09• Comprehensive Scholarship, Sichuan University 2021.09• Academic scholarship, Law School 2021.06• Excellent Student Leader, School of Architecture and Environment 2020.09• Third Prize of Mathematics competition of Chinese College Students, Chinese Mathematical Society 2019.11• Second Scholarship, Sichuan University 2019.09
SKILLS	<p>Languages: Mandarin, English Programming: Python, C/C++, Fortran Technical: Linux, MATLAB, L^AT_EX, HTML</p>
ACADEMIC EXPERIENCE	<p>Member: European Geosciences Union, American Physical Society Research Assistant: Eastern Institute for Advanced Study (Advisor: Prof. Shengqi Zhang) 2022.09 - 2023.07</p>