

Ziang Yang

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PROFILE

Undergraduate student studying at Peking University in Theoretical and Applied Mechanics. Interested in the relevant theories and applications of fluid mechanics. I have two relevant research experiences and have mastered some basic research skills. I hope to apply for a PhD in a related major in 2025.

EDUCATION

Peking University, China

Jun. 2021 -

Jun.2025

B.S. in Engineering

HONORS / AWARDS

Undergraduate Scholarship, Peking University (2022,2023)

RESEARCH EXPERIENCE

Peking university, Professor Jin-Han Xie's group

Laboratory team member

Mar .2024 – Oct .2024

Regarding environmental fluid mechanics, based on the study of turbulence theory, study the effect of topography at different scales on the energy transfer of turbulence in two-dimensional turbulence.

Through research, I learned the basics of turbulence theory and understood many mathematical methods used to study turbulence and applied them.

It is expected that an undergraduate research report related to this topic will be produced in February 2025

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Peking university, Professor Yue Yang's group

Laboratory team member

Jan. 2024 – Oct. 2024

Research on using artificial intelligence to solve the problem of prompt words in computational fluid problems. Research on using quantum computing methods to solve some problems in fluid

mechanics (For example, recovering the motion of a fluid from its quantum state, Schrödingerizing or linearizing equations so that they can be solved by quantum computing).

Through research, I have gained new insights into computational fluid dynamics and mastered more relevant numerical calculation methods.

Some simple results have been achieved, which are expected to be presented in the form of graduation thesis.

SKILLS

basic numerical computation methods, fluid mechanics, and applied mathematics

Programming: Python, MATLAB, C, LATEX

Language skills: English(fluent), Chinese(native)