

Yaxuan Yang

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Academic Page: <https://yyx-git.github.io/>

EDUCATION

Sichuan University ([Nature Index 2025](#), No. 11 among global academic institutions)

09/2024 - present

- Master of Mechanics
- Main Courses: Continuum Mechanics, Advanced Fluid Mechanics...
- GPA: 3.9/4.0

China University of Geosciences (Beijing)

09/2020 - 06/2024

- Bachelor of Civil Engineering
- Main Courses: Higher Mathematics, Geoscience, Engineering Fluid Mechanics...
- GPA: 3.47/4.0

RESEARCH INTERESTS

- Typhoon dynamics and controllability
- Reinforcement learning for Typhoon Control
- Ocean-atmosphere interaction and landfall processes

RESEARCH EXPERIENCES

Reinforcement Learning for Pre-Landfall Typhoon Intensity Control, **Sichuan University** 12/2025 - present

- Investigating typhoon intensity control by modifying sea surface temperature (SST) through numerical simulations.
- Apply reinforcement learning to identify optimal control strategies.
- Model SST changes through mixing colder deep water with warmer surface water.

Landfalling tropical cyclones perturb Earth's rotation, **Sichuan University**

10/2024 - present

- Studied how landfalling tropical cyclones influence Earth's rotation through angular momentum exchange.
- Calculated frictional torque between cyclones and the land surface to reveal the underlying mechanism.

PUBLICATIONS

"Landfalling tropical cyclones perturb Earth's rotation", Yaxuan Yang, Lei Liu, Zhouyu Zhang, Yongjie Liu, Lin Li, Qingyuan Wang. (In preparation)

PRESENTATIONS

Impact of Tropical Cyclones on Earth's Rotation. Yaxuan Yang. [Poster Session] Asia Oceania Geosciences Society (AOGS2026, August 2-7).

SKILLS

- Research Skills: Numerical simulation; reinforcement learning; data analysis; mathematical modeling
- Programming: Python; MATLAB
- General Software: Microsoft Office; LaTeX

HONORS

- National Encouragement Scholarship(2022)
- The Third Prize Scholarship(2020 - 2024)
- The Second Prize Scholarship(2024 - present)