

Zheng-Hang Fu

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Education

Fudan University

Ph.D. in Climate System and Climate Change

Advisors: Wen Zhou and Shang-Ping Xie

Shanghai, China

September 2023 – Present

Fudan University

B.S. in Atmospheric Science

Advisors: Xingnan Ye and Ruifen Zhan

GPA: 3.75/4.00, Rank 1/23, Major GPA: 3.94/4.00.

Shanghai, China

September 2019 – June 2023

Grants

- [2] Principal Investigator, National Natural Science Foundation of China Youth Student Basic Research Project (Ph.D. Students) grant No. 424B2036, “Seasonal impact of Southern Ocean freshwater forcing on the Intertropical Convergence Zone,” 2025/01 – 2026/12, **Award total: ¥300,000**
- [1] Principal Investigator, Fudan Undergraduate Research Opportunities Program (FDUROP) Wangdao Project grant No. 21057, “On the characteristics and possible mechanisms of multiple tropical cyclone events under global warming,” 2021/11 – 2022/10, **Award total: ¥10,000**

Publications

- [3] **Fu, Z.-H.**, W. Zhou*, S.-P. Xie*, R. Zhang, and X. Wang, 2024: Dynamic Pathway Linking Pakistan Flooding to East Asian Heatwaves. **Science Advances**, 10, *eadk9250*.
<https://doi.org/10.1126/sciadv.adk9250> [Magazine cover]
- [2] **Fu, Z.-H.**, R. Zhan*, J. Zhao, Y. Yamada, and K. Song, 2023: Future Projections of Multiple Tropical Cyclone Events in the Northern Hemisphere in the CMIP6-HighResMIP Models. **Geophysical Research Letters**. 50, *e2023GL103064*. <https://doi.org/10.1029/2023GL103064>
- [1] **Fu Z.-H.**, L. Cheng, X. Ye*, Z. Ma, R. Wang, Y. Duan*, J. Huo, J. Chen, 2022: Characteristics of aerosol chemistry and acidity in Shanghai after PM2.5 satisfied national guideline: Insight into future emission control, **Science of The Total Environment**, 154319.
<https://doi.org/10.1016/j.scitotenv.2022.154319>.

Selected Presentations

Conference talks:

- [5] "Mechanisms and Prediction of Extreme Weather and Climate" 2024 Graduate Summer School, Nanjing University of Information Science and Technology (NUIST), China (September, 2024): Dynamic pathway linking Pakistan flooding to East Asian heatwaves.
- [4] The 2024 PhD Student Forum on Climate Change, Nanjing University, China (May 2024): Dynamic pathway linking Pakistan flooding to East Asian heatwaves.

- [3] The 9th Young Scientist Forum of Earth Science, Xiamen, China (May 2024): Dynamic pathway linking Pakistan flooding to East Asian heatwaves.
- [2] American Geophysical Union (AGU) Fall Meeting, San Francisco, CA (December 2023): Extreme events interaction: Pakistan sea-like flood contributes to unprecedented heatwaves in East Asia.
- [1] 2023 Meteorological Youth Scientists Forum and Meteorological Science and Technology Journal Development and Improvement Seminar, Zhuhai, China (August 2023): Dissemination, Promotion, and Utilization of Meteorological Research Achievements: Taking ZQA Weather Hub of China as an Example.

Conference posters:

- [2] AOGS2024 21st Annual Meeting, Pyeongchang, South Korea (June 2024): Dynamic pathway linking Pakistan flooding to East Asian heatwaves.
- [1] The 5th National Mesoscale Meteorology Forum, Yinchuan, China (August 2023): Future Projections of Multiple Tropical Cyclone Events in the Northern Hemisphere in the CMIP6-HighResMIP Models.

Teaching

Fudan University, Department of Atmospheric and Oceanic Sciences (AOS), **Teaching Assistant**, Statistical Methods in Meteorology (undergraduate) Autumn 2023

Fudan University, Department of AOS, **Teaching Assistant**, Research Training (undergraduate) Autumn 2023

Selected Awards and Honors

Scholarships

National Scholarship (Top 2%)	December 2021, 2022, 2024
The First Prize Scholarship of Fudan University (Top 5%)	December 2020

Awards

Youth Talent Support Program (Ph.D. Students) of China Association for Science and Technology	January 2025
Best Student Poster (BSP) Award	AOGS Annual Meeting 2024
Outstanding Student Presentation Award (OSPA)	AGU Fall Meeting 2023
The Graduate Star of Fudan University (Highest honor for undergraduates)	May 2023
The May Fourth Youth Medal of Fudan University (2 students every year)	May 2023
Outstanding Bachelor Student in Shanghai (Top 5%)	April 2023
Outstanding Student Pacesetter of Fudan University (10 students every year)	November 2022
Academy Star of Fudan University (Innovation and Practice) (10 groups every year)	May 2021

Activities

Peer Review: *Science Advances*, *International Journal of Climatology*

ZQA Weather Hub of China, core member September 2020 – present

Student Union of Department of Environmental Science and Engineering & Department of AOS in Fudan University, Member, publicity minister, executive chairman

Skills

Programming: Python (proficient), NCL (intermediate), MATLAB (intermediate), Fortran (beginner)

Platforms: Linux (proficient), LaTeX (proficient), Origin (proficient), MeteoInfo (intermediate), SPSS (intermediate)