Zheng-Hang Fu

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Education

Sept. 2023 – Present, Ph.D. student, Atmospheric Science, Fudan University
(Oct. 2025 – Present, Visiting Graduate, Scripps Institution of Oceanography, UC San Diego, USA)
(Mar. 2025 – Apr. 2025, Visiting Scholar, University of Bergen, Norway)
Sept. 2019 – Jun. 2023, B.S., Atmospheric Science, Fudan University

Publications

5. **Fu, Z.-H.***, R. Zhan, and W. Zhou, 2025: Spatial diversity of multiple tropical cyclone events over the western North Pacific and associated physical processes, *Journal of Climate*, 38, 4445–4461.
4. **Fu, Z.-H.**†, D. Xi†, S.-P. Xie, W. Zhou*, N. Lin, J. Zhao, X. Wang, and J. C. L. Chan, 2025: Shifting hotspot of tropical cyclone clusters in a warming climate, *Nature Climate Change*, 15, 850–858.
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. [**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.
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.

Selected Presentations

Conference talks:

4. Asia Oceania Geosciences Society (AOGS) 2025 Annual General Meeting, Singapore (July 2025): Shifting hotspot of tropical cyclone clusters in a warming climate.
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. (Invited)

Conference posters:

2. AOGS 2024 Annual General 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.

Schools, workshops, and seminars:

2. Workshop on Polar Winter Climate and Processes: Towards Filling Knowledge Gaps in the Understanding of the Coupled Climate System, April 2025, Cambridge, UK.
1. Bjerknes Centre for Climate Research seminar: Dynamic pathway linking Pakistan flooding to East Asian heatwaves, March 2025, Bergen, Norway.

Teaching

Autumn 2023 **Teaching Assistant**, Statistical Methods in Meteorology, Fudan University
Autumn 2023 **Teaching Assistant**, Research Training, Fudan University

Selected Awards and Honors

National Scholarship (Top 2%), December 2021, 2022, 2024
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

Activities and Service

Peer Review:

Science Advances (2), *Climate Dynamics* (1), *International Journal of Climatology* (1), *Natural Hazards* (1)

Outreach:

ZQA Weather Hub of China, Co-founder.

Department service:

Student Union, Member (2019-2022), Minister (2020-2021), Chairman (2021-2022)

Skills

Programming: Python, NCL, MATLAB, C/C++
Platforms: Linux, LaTeX, Origin, MeteoInfo, SPSS