

# Zheng-Hang Fu

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## EDUCATION

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### 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

## PUBLICATIONS

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- [3] **Zheng-Hang Fu**, Wen Zhou\*, Shang-Ping Xie\*, Ruhua Zhang, and Xudong 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] **Zheng-Hang Fu**, Ruifen Zhan\*, Jiuwei Zhao, Yohei Yamada, and Kexin 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] **Zheng-Hang Fu**, Libin Cheng, Xingnan Ye\*, Zhen Ma, Ruoyan Wang, Yusen Duan\*, Huo Juntao, Jianmin 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>.

## RESEARCH INTERESTS

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- Climate Dynamics
- Climate/Weather Extremes
- East Asian Summer Monsoon

## CONFERENCES

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### Conference presentations:

- [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 poster:

- [2] AOGS2024 21<sup>st</sup> Annual Meeting, Pyeongchang, South Korea (June 2024): Dynamic pathway linking Pakistan flooding to East Asian heatwaves.
- [1] The 5<sup>th</sup> 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

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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

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### Scholarships

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

### Awards

- Outstanding Student Presentation Award (OSPA) American Geophysical Union Fall Meeting 2023
- The Graduate Star of Fudan University (Highest honor for undergraduates, Top 10 among ~3625) 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

## SKILLS

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

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

## ACTIVITIES

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- **ZQA Weather Hub of China**, core member September 2020 – present
- **Tsinghua University Student Association of Meteorology**, member September 2021 – present
- **Student Union of Department of Environmental Science and Engineering & Department of AOS in Fudan University**, Member, publicity minister, executive chairman  
September 2019 – September 2022