WEN ZHOU

Department of Atmospheric and Oceanic Sciences, Fudan University, Shanghai, China
E-mail: wen_zhou@fudan.edu.cn
Tel: (+86) 18620465801
Website: http://www.wenzhou-clim.com/en/

Education

Ph.D. 2004 Atmospheric Science, City University of Hong Kong
M.S. 1996 Atmospheric Science, Sun Yat-sen University
B.S. 1990 Atmospheric Science, Sun Yat-sen University

Appointments

2024.03–, Deputy Director, Department of Atmospheric and Oceanic Sciences, Fudan University
2024.01–, Director, Institute of Ice, Snow, and Climate Change, Polar Research Institute of China
2022.01–, Distinguished Professor, Fudan University
2022.01–, Adjunct Professor, City University of Hong Kong
2021.07-2021.12, Director, Guy Carpenter Asia-Pacific Climate Impact Centre,
2020.07-2021.06, Deputy Director, Guy Carpenter Asia-Pacific Climate Impact Centre
2019.7-2021.12, Professor, City University of Hong Kong
2014.7-2019.6, Associate Professor, City University of Hong Kong
2008.2-2014.6, Assistant Professor, City University of Hong Kong
2006.10-2008.1, Lecturer, City University of Hong Kong

Honors

Asia Oceania Geoscience Society (AOGS) Fellow, 2025
Outstanding Editor Award, *Advances in Atmospheric Science*, 2025
Top 2% Scientists Worldwide by Stanford University, 2021–
The Top 1,000 Most Influential Scientists Globally on Climate Change by Reuters UK, 2021
City University of Hong Kong Outstanding Supervisor Award, 2017
Guangzhou City Science and Technology Advancement Award (1st Class Award), 2017
Shenzhen City Innovation Science and Technology Award, 2017
Alexander von Humboldt Research Fellow, 2008
K C Wong Post-Doctoral Research Fellowship, 2006

Selected 10 Publications (306 SCI papers in total)

Scopus statistics: Total Citations: 11857; H-index: 59 (update: 2026-11-12)

ORCID; Web of Science; Google Scholar; ResearchGate.

[*] The corresponding author. [#] The student or postdoc in Wen's group.

Section A - Five most representative publications in recent 5 years

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.

Fu Z.-H.[#], **W. Zhou**[*], S.-P. Xie, R.H. Zhang[#], X.D. Wang, 2024: Dynamic pathway linking Pakistan flooding to East Asian heatwaves, *Science Advances*, 10, eadk9250. **[Cover paper]**

Zhang R.H.[#], **W. Zhou**[*], W.S. Tian, Y. Zhang[#], J.X. Zhang, J.L. Luo, 2024: A stratospheric precursor of East Asian summer droughts and floods. *Nature Communications*, 15, 247.

Shen Z.L.[#], **W. Zhou**[*], J.X. Li, JCL Chan, 2023: A frequent ice-free Arctic is likely to occur before the mid-21st century. *npj Climate and Atmospheric Science*, 6, 103.

Yao S.-L.[#], **W. Zhou**[*]**,** F.-F Jin, F. Zheng, 2021: North Atlantic as a Trigger for Pacific Wide Decadal Climate Change, *Geophysical Research Letter*, 48, e2021GL094719.

Section B - Five representative publications beyond the recent five-year period

Li R. C.[#], and **W. Zhou**[*], 2013: Modulation of western North Pacific tropical cyclone activity by the ISO. Part I: Genesis and intensity. *Journal of Climate*, 26, 2904-2918. [Citations: 232]

Cheung H. N.[#], **W. Zhou**[*], H. Y. Mok, and M. C. Wu, 2012: Relationship between Ural–Siberian blocking and the East Asian winter monsoon in relation to the Arctic Oscillation and the El Niño–Southern Oscillation. *Journal of Climate*, 25, 4242-4257. [Citations: 287]

Zhou. W, JCL Chan, W. Chen, J. Ling, J.G. Pinto and Y.P. Shao, 2009: Synoptic-scale controls of persistent low temperature and icy weather over Southern China in January 2008. *Monthly Weather Review*, 137, 3978-3991. [Citations: 388]

Zhou W. and JCL Chan, 2007: ENSO and South China Sea summer monsoon onset. *International Journal of Climatology*, 27, 157-167. [Citations: 304]

Zhou W. and JCL Chan, 2005: Intraseasonal oscillations and the South China Sea summer monsoon onset. *International Journal of C1imatology*, 25, 1585-1609. [Citations: 191]

Section C - Books / Book Chapters

Zheng C. W., Z. N. Xiao, **W. Zhou**, X. B. Chen, and X. Chen, 2017: The Maritime Silk Road: A Great Peaceful Way Forward. ISSN 2365-7677 e-ISSN 2365-7685, Springer Oceanography, ISBN 978-981-10-7976-4 e-ISBN 978-981-10-7977-1

Wang D. X., X. Wang, **W. Zhou**, and C. Y. Li, 2014: Comparisons of Two Types of El Niño Impacts on TC Genesis over the South China Sea. January 2014. doi:10.1007/978-3-642-40695-9_17. In book: Typhoon Impact and Crisis Management, pp. 351-359

Selected Funding

Principal Investigator of research projects totaling ¥31,400,000 in funding.

Four most representative fundings in recent 5 years

Principal Investigator, National Key Research and Development Program of China of the Ministry of Science and Technology, grant No. 2025YFF0812000, "Asian monsoon variability and extreme weather and climate", 2025/12-2030/11, **Award total: ¥16,400,000**

Principal Investigator, International Science and Technology Cooperation Program under the 2024 Shanghai Action Plan for Science, Technology and Innovation grant No. 24230780200, "The mechanism of heatwave occurrence under climate change and its extreme scenario response strategy", 2024/12-2027/11, **Award total: ¥1,500,000**

Principal Investigator, Major Program of the National Natural Science Foundation of China (NSFC) grant No. 42192563, "Impacts and mechanisms of inter-ocean interactions on typhoon activity in the northwestern Pacific", 2022/01-2026/12, **Award total: ¥2,850,000**

Principal Investigator, Key International (Regional) Collaborative Research Project of the NSFC grant No. 42120104001, "The influence of external oceanic forcing and internal atmospheric process on the interdecadal variation of precipitation in eastern China and its mechanism", 2022/01-2026/12, **Award total: ¥2,330,000**

Teaching and Advising

Courses at Fudan University:

Climate Change and Extreme Weather (Undergraduate);
Research Training (Undergraduate);
Professional English (Graduate);
Radar Meteorology (Graduate);

Courses at City University of Hong Kong:

Climate Change and Extreme Weather (Undergraduate);
Data analysis in Environ Application (Undergraduate/Graduate);
Air Pollution (Undergraduate);
Atmospheric Science: An introductory Survey (Undergraduate).

Advisors of 18 PhD graduates, 5 MS graduates, 9 PhD students, and 3 MS students:

MS graduates:

Cheung H. N. Hoffman (2011); Wong Wai Cheong (2012); Lok Chan Wa (2013); Wang Ying (2018); Zhuoying Li (2025)

PhD graduates:

Li C. Y. Richard (2013); Li Xiuzhen (2013); Wang Lin (2014); Wang Weiwen (2014); Leung Y. T. Marco (2015); Chow C. H. Eric (2015); Cheung H. N. Hoffman (2015); Qiu Shuang (2018); ABOLUDE Akintayo Temiloluwa (2018); Cheung King Yeung (2019); AKINSANOLA Akintomide Afolayan (2019); Zhang Yue (2019); Jian Yuntao (2021); Tian Ye (2024); Yu Xiaocheng (2024); WIDANA ARACHCHIGE Erandani Lakshani (2024); Oluwafemi Adeyeri (2024); Zekai Ni (2026)

MS students:

2024: Wang Qianqian

2025: Zhou Shiyang

2026: Zhu Shibang

PhD students:

2023: Fu Zheng-Hang; Li Lunyu

2024: Wang Hao

2025: Wang Xin; Liu Yiting; Zhang Yu; Liu Bingkuan

2026: Wang Qinxin; Li Tong

Professional Activities

Leaderships:

Leader, **Scientific Expedition** on Snow and Ice Melt at the Yellow River Station (Huanghe Station) in Ny-Ålesund (78°55'N), Svalbard. August-September 2024.

Chief Scientist Advisor, 42nd Chinese National Antarctic Research Expedition, Prydz Bay Autumn Joint Voyage aboard Xuelong 2. March-April 2026.

Scientist, 43rd Chinese National Antarctic Research Expedition, Summer Expedition. November 2026-February 2027 (expected).

Organizer, 2024 International Summer School Program on Climate Change and Related Risks. 2024

Chair, CAS/SAFEA International Partnership Program for Creative Research Teams. 2014 –

Memberships:

Scientific Advisor, Hong Kong Observatory, 2008 –

Executive Committee member, Hong Kong Meteorological Society, 2014 –

Climate Dynamics Panel member, China Meteorological Society, 2014 –

Journal Editor:

Editor, *Advances in Atmospheric Sciences*, 2013 –

Chief Editor, *HKMetSoc Bulletin*, 2015 –

Editor, *Atmospheric & Oceanic Science Letters*, 2022 –

Editor, *SPJ Ocean-Land-Atmosphere Research*, 2022 –

Specialty Chief Editor, *Frontiers in Climate*, 2022 –

Editor, *Journal of Meteorological Research*, 2025 –

Guest Editor, *Frontier in Earth Science*, 2015-2016

Conference Service:

Atmosphere Science Section Secretary, AOGS, 2018 –
Convener, AOGS2017, AS21 Session; OS12 Session, Singapore, 2017
Convener, AGU2017, OS017 Session, USA, 2017
Convener, AOGS2018, OS11 Session, USA, 2018
Convener, AOGS2019, OS11 Session, Singapore, 2019
Convener, AOGS2020, AS11 Session; AS29 Session; OS02 Session, South Korea, 2020
Convener, AOGS2022, OS02 Session, Online, 2022
Convener, AOGS2023, AS09 Session, Singapore, 2023
Convener, AGU2023, GC020 Session, USA, 2023
Convener, AOGS2024, AS40 Session, South Korea, 2024
Convener, AOGS2025, AS15 Session, Singapore, 2025

Journal Reviewer:

Nature, *Nature Climate Change*, *Nature Geoscience*, *Nature Communications*, *Science Advances*, *Earth's Future*, *npj Climate and Atmospheric Sciences*, *Geophysical Research Letters*, *Scientific reports*, *Journal of Climate*, *Climate Dynamics*, *Monthly Weather Review*, *Journal of Geophysical Research-Atmospheres*, *Advances in Atmospheric Sciences*, *Science China Earth Science*, *International Journal of Climatology*, *Journal of Meteorological Research*, *Theoretical and applied climatology*, *Dynamics of Atmospheres and Oceans*, *Meteorology and Atmospheric Physics*, *Chinese Science Bulletin*.