

Wenhao Dong

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Research Interests

Model diagnostic, Variability of large-scale circulation, Tropical disturbance (low-pressure systems, mesoscale convective systems, etc.), Environmental data analysis

Education

2012-2018	Ph. D., Department of Earth System Science, Tsinghua University
2008-2012	B.E., School of Water Resources and Hydropower Engineering, Wuhan University

Research Experience

2018-present	Postdoctoral Research Associate, Geophysical Fluid Dynamics Laboratory
2013-2016	Graduate Teaching Assistant, General Circulation, Tsinghua University
2012-2018	Research Assistant, Tsinghua University

Field Experiment

2015	Tibetan Plateau: Himalayan glacier (Rongbuk), lakes (Namco, Yamzhog Yumco), and different rainfall types observation
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Publications

1. Dong, W., Y. Ming, V. Ramaswamy (2020). [Projected changes in Indian monsoon low-pressure system](#), *J Climate*, 33 (17): 7275–7287.
2. Dong, W., Lin, Y., Zhang, M., & Huang, X. (2020). [Footprint of tropical mesoscale convective system variability on stratospheric water vapor](#), *Geophys. Res. Lett.*, 47, e2019GL086320.
3. Dong, W., Y. Lin, J. Wright *et al.* (2019). [Precipitable water and CAPE dependence of rainfall intensities in China](#), *Clim. Dyn.*, 52, 3357–3368.
4. Dong, W., Y. Lin, J. Wright *et al.* (2018) [Connections between a late summer snowstorm over the southwestern Tibetan Plateau and a concurrent Indian monsoon low pressure system](#), *J. Geophys. Res. Atmos.*, 123 (24), 13,676–13,691.
5. Dong, W., Y. Lin, J. Wright, Y. Ming *et al.* (2018). [Regional disparities in summer rainfall changes over the arid eastern-Central Asia](#). *Sci. Rep.*, 8, 13051, DOI:10.1038/s41598-018-31246-3.
6. Lin, Y., Dong, W., M. Zhang *et al.* (2017): [Causes of model dry and warm bias over central U.S. and impact on climate projections](#), *Nat. Commun.*, 8, 881.
7. Dong, W., Y. Lin, J. Wright *et al.* (2017): [Monsoon low pressure systems feed up-and-over moisture transport to the southwestern Tibetan Plateau](#), *J. Geophys. Res. Atmos.*, 122, 12140–12151.
8. Dong, W., Y. Lin, J. Wright, Y. Ming *et al.* (2016): [Summer rainfall over the southwestern Tibetan Plateau controlled by deep convection over the Indian subcontinent](#), *Nat. Commun.*, 7, 10925.

Academic service

Reviewer for *Atmospheric Research*, *Earth Systems and Environment*, *Geophysical Research Letter*, *Journal of Climate*, *Journal of Geophysical Research–Atmospheres*, *Journal of Meteorological Research*, and *Scientific Reports*

Conferences & Presentation

GFDL Poster EXPO, 2019, "*Causes of model dry and warm bias over central U.S. and impact on climate projections*", Poster, Princeton, U.S.

Atmospheric Composition and the Asian Monsoon (ACAM), 2017, "*The potential role of up-and-over in trans-Himalayan pollution transport*", Oral, Guangzhou, China

Asia–Oceania Geosciences Society (AOGS), 2016, "*Summer rainfall over the southwestern Tibetan Plateau controlled by deep convection over the Indian subcontinent*", Oral, Beijing, China

American Geophysical Union (AGU), 2014, "*Propagating convective system as a rainfall connection between southwestern Tibetan Plateau and Indian continent*", Poster, San Francisco, U.S.

Honors & Awards

Outstanding graduate of Tsinghua University [1%], 2018

Excellent Doctor Degree Dissertation of Tsinghua University [1%], 2018

Young scientist of the Department of Earth System Science, Tsinghua University [1%], 2016&2018

National Scholarship, 2016

Outstanding graduate of Wuhan University, 2012

Excellent Graduation Thesis of Hubei Province, 2012