

## Academic Staff Resume

Name: XIAO Jing

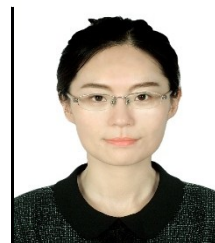
Title: Post-Doctor

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### Academic Qualification:

Ph.D. in Nanjing University, School of Atmospheric Sciences, Nanjing

Master in Nanjing University, School of Atmospheric Sciences, Nanjing

Bachelor in Nanjing University, School of Atmospheric Sciences, Nanjing

### Teaching Area

Atmospheric physics and dynamics

### Research Area

- Mountain meteorology
- Dynamics and numerical simulation of tropical cyclone (TC) and other mesoscale weather systems
- Climatology and dynamics of dust storms on Mars

### Working Experience

Research assistant, University of Science and Technology, Macau 2016-2018

Post-doctor, University of Science and Technology, Macau 2018-2020

Visiting scholar to the Department of Earth, Planetary and Space Science of UCLA, U.S. January 02 2019— March 04 2019

### Research Projects

FDCT(080/2015/A3): Martian dust storm climate and related dynamic processes

FDCT(088/2018/A3): Rapid expansion process of Martian global dust storm and the numerical simulation

FDCT(0045/2018/AFJ): Dynamics and numerical forecasting of multi-scale severe weather systems in Pearl River Estuary Region

Martian atmospheric environment prediction for EDL stage of China Tianwen-1 mission

### Professional Certification and Awards

First-class award in the 1st Jiangsu College Students Scientific and Technological Innovation Thesis Contest, Jiangsu Associations of Science and Technology, 2009

The National Scholarship for Doctoral Students, Ministry of Education, 2012

Best poster award in the International Symposium on Lunar and Planetary Science (ISLPS), 2018

### Professional Society Membership

Reviewer of Earth and Planetary Physics journal

### Academic Publication

#### Journal Articles:

Xiao, J., Z.-M. Tan, and K.-C. Chow, 2018: Convective structure and formation of secondary rainbands in a simulated typhoon Jangmi (2008), *Meteorol. Atmos. Phys.*, **130**, 713–737, doi:10.1007/s00703-018-0599-0.

Xiao, J., K.-C. Chow, and K. L. Chan, 2019: Dynamical processes of dust lifting in the northern mid-latitude region of Mars during the storm season. *Icarus*, **317**, 94-103, doi: 10.1016/j.icarus.2018.07.020.

Chow, K.-C., K. L. Chan, and J. Xiao, 2018: Dust activity over the Hellas basin of Mars during the period of southern spring equinox. *Icarus*, **311**, 306-316, doi:10.1016/j.icarus.2018.04.011.

Chow, K.-C., J. Xiao, K. L. Chan, C. F. Wong, 2019: Flow associated with the condensation and sublimation of polar ice caps on Mars. *Journal of Geophysical Research–Planets*, **124**, 1570–1580, doi:10.1029/2018JE005848.

Liu, J., K.-C. Di, S. Gou, Z.-Y. Yue, B. Liu, J. Xiao, and Z. Q. Liu, 2020: Mapping and spatial statistical analysis of Mars Yardangs. *Planet Space Sci.*, **192** (105035), <https://doi.org/10.1016/j.pss.2020.105035>.

#### Books & Book Chapters:

#### Conference Papers: