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Education

- **2013 - Ph.D.** (Meteorology), Nanjing University of Information Science and Technology (Former Nanjing Institute of Meteorology), Nanjing, China
- **2010 - M.S.** (Meteorology), Nanjing University of Information Science and Technology, Nanjing, China
- **2007 - B.S.** (Atmospheric Science), Nanjing University of Information Science and Technology, Nanjing, China

Scientific Work Experience

- Dec. 2016 – Present, **Associate Professor**, State Key Laboratory of Tropical Oceanography, South China Sea Institute of Oceanology, Chinese Academy of Sciences, China
- Jun. 2017 – Sep. 2017, **Postdoctoral Fellow**, Earth System Science Programme, Faculty of Science, The Chinese University of Hong Kong, Hong Kong

- Mar. 2015 – Aug. 2015, **Postdoctoral Fellow**, Earth System Science Programme, Faculty of Science, The Chinese University of Hong Kong, Hong Kong
- Jul. 2013 – Nov. 2016, **Assistant Professor**, State Key Laboratory of Tropical Oceanography, South China Sea Institute of Oceanology, Chinese Academy of Sciences, China

Research Interests

- ENSO dynamics
- Tropical ocean-atmosphere interaction
- Ocean circulation and climate changes

Refereed Publications

1. **Xu, K.**, Q.-L. Huang, C.-Y. Tam, W. Wang, S. Chen, and C. Zhu, 2019: Roles of tropical SST patterns during two types of ENSO in modulating wintertime rainfall over southern China, *Climate Dyn.*, **52**, 523-538, doi:10.1007/s00382-018-4170-y.
2. **Xu, K.**, W. Wang, B. Liu, and C. Zhu, 2019: Weakening of the El Niño amplitude since the late 1990s and its link to decadal change in the North Pacific climate, *Int. J. Climatol.*, **39**, 4125-4138, doi: 10.1002/joc.6063.
3. **Xu, K.**, B. Liu, Y. Liu, W. Wang, and Z. He, 2019: Effects of monsoon onset vortex on heat budget in the mixed layer of the Bay of Bengal, *J. Oceanol. Limnol.*, doi: 10.1007/s00343-019-9061-5.
4. Wang, Y., Z. Jian, P. Zhao, **K. Xu**, H. Dang, Z. Liu, D. Xiao, and J. Chen, 2019: Precessional forced zonal triple-pole anomalies in the tropical Pacific annual cycle, *J. Climate*, **32**, 7369-7402, doi: 10.1175/JCLI-D-18-0668.1.
5. He, Z., W. Wang, R. Wu, I.-S. Kang, C. He, X. Li, **K. Xu**, S. Chen, 2019: Change in coherence of summer rainfall variability over the western Pacific around the early 2000s: ENSO influence, *J. Climate*, doi: 10.1175/JCLI-D-19-0150.1.

6. Wang, P., C.-Y. Tam, and **K. Xu**, 2019: El Niño-East Asian monsoon teleconnection and its diversity in CMIP5 models, *Climate Dyn.*, **53**, 6417–6435, doi: 10.1007/s00382-019-04938-3.
7. Liu, B., C. Zhu, J. Su, S. Ma, and **K. Xu**, 2019: Record-breaking northward shift of the western North Pacific Subtropical High in July 2018, *J. Meteor. Soc. Japan*, **97**(4), 913-925, doi:10.2151/jmsj.2019-047.
8. Sang, Y.-F., V. P. Singh, and **K. Xu**, 2019: Evolution of IOD-ENSO relationship at multiple time scales, *Theor. Appl. Climatol.*, **136**, 1303-1309, doi: 10.1007/s00704-018-2557-7.
9. Zheng J., **K. Xu***, G. Chen, K. Hu, J. Chen, L. Yang, Q. Wang, X. Wang, W. Wang, and D. Wang, 2018: Research progress on the interaction between tropical Indian Ocean circulation dynamics and monsoon, *Journal of Nanjing University of Information Science and Technology (Natural Science Edition)*, **10**(3), 275-281. (in Chinese with English abstract)
10. Zuo, Z., S. Yang, **K. Xu**, R. Zhang, Q. He, T. Zhao, and J. Cong, 2018: Land surface air temperature variations over Eurasia and possible causes in the past century. *Int. J. Climatol.*, **38**(4), 1925-1937, doi: 10.1002/joc.5306.
11. **Xu, K.**, R. X. Huang, W. Wang, C. Zhu, and R. Lu, 2017: Thermocline fluctuations in the equatorial Pacific related to the two types of El Niño events, *J. Climate*, **30**, 6611-6627, doi:10.1175/JCLI-D-16-0291.1.
12. **Xu, K.**, C.-Y. Tam, C. Zhu, B. Liu, and W. Wang, 2017: CMIP5 projections of two types of El Niño and their related tropical precipitation in the twenty-first Century, *J. Climate*, **30**, 849-864, doi:10.1175/JCLI-D-16-0413.1.
13. **Xu, K.**, C. Zhu, and W. Wang, 2016: The cooperative impacts of the El Niño–Southern Oscillation and the Indian Ocean Dipole on the interannual variability of autumn rainfall in China. *Int. J. Climatol.*, **36**, 1987-1999, doi: 10.1002/joc.4475.
14. Sang, Y.-F., V. P. Singh, T. Gong, **K. Xu**, F. Sun, C. Liu, W. Liu, and R. Chen, 2016: Precipitation variability and response to changing climatic condition in the Yarlung Tsangpo River basin, China. *J. Geophys. Res. Atmos.*, **121**, 8820-8831, doi:10.1002/2016JD025370.
15. Liu, B., C. Zhu, Y. Yuan, and **K. Xu**, 2016: Two types of interannual variability of South China Sea summer monsoon onset related to the SST anomalies before and after 1993/94. *J. Climate*, **29**, 6957-6971, doi: 10.1175/JCLI-D-16-0065.1.

16. **Xu, K.**, J. Su, and C. Zhu, 2014: The natural oscillation of two types of ENSO events based on analyses of CMIP5 model control runs. *Adv. Atmos. Sci.*, **31**(4), 801-813, doi: 10.1007/s00376-013-3153-5.
17. **Xu, K.**, C. Zhu, and J. He, 2013: Two types of El Niño-related Southern Oscillation and their different impacts on global land precipitation. *Adv. Atmos. Sci.*, **30**(6), 1743-1757, doi: 10.1007/s00376-013-2272-3.
18. **Xu, K.**, C. Zhu, and J. He, 2012: Linkage between the dominant modes in Pacific subsurface ocean temperature and the two type ENSO events. *Chin. Sci. Bull.*, **57**(26), 3491-3496, doi: 10.1007/s11434-012-5173-4.
19. **Xu, K.**, J. He, and C. Zhu, 2011: The interdecadal linkage of summer precipitation in eastern China with the surface air temperature over Lake Baikal in the past 50 years. *Acta Meteorologica Sinica*, **69**, 570-580. (in Chinese with English abstract)
20. **Xu, K.**, C. Zhu, and J. He, 2011: The impact of the surface air temperature warming around Lake Baikal on the trend of summer precipitation in North China over the past 50 years. *Plateau Meteorology*, **30**(2), 309-317. (in Chinese with English abstract)
21. **Xu, K.**, and C. Zhu, 2010: Tropical pacific decadal oscillation in subsurface ocean temperature. *Atmos. Oceanic Sci. Lett.*, **3**(2), 106-110, doi: 10.1080/16742834.2010.11446850.
22. Zhu C., **K. Xu**, S. Zhang, and L. Guo, 2010: Interdecadal variation of spring dust storms in China and its seasonal statistical forecast. *Meteorological science and technology*, **38**(2), 201-204. (in Chinese with English abstract)