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# 南京大学大气科学学院

School of Atmospheric Sciences, Nanjing University

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**FANG Juan**

**方 娟**

fangjuan@nju.edu.cn

86-025-89681291

School of Atmospheric Sciences

Nanjing University

163 Xianlin Road, Nanjing

## **Education**

- Sep. 1995 – Mar. 2000 Nanjing University  
Ph. D, Meteorology  
Geostrophic adjustment frontogenesis
- Sep. 1991 – Jul. 1995 Nanjing University  
Bachelor degree, Meteorology

## **Work Experience**

- Sep. 2008 – Feb. 2010 Department of Meteorology  
Penn. State University  
Associate research scientist  
Studying tropical cyclone dynamics
- Feb. 2008 – Aug. 2008 Department of Atmospheric Sciences  
Texas A&M University  
Associate research scientist  
Studying tropical cyclone dynamics
- Dec. 2006 – Present Department of Atmospheric Sciences, Nanjing University  
Hankou Rd. 22, Nanjing, China  
Professor  
Teaching and researching on meteorology
- Dec. 2003 – Dec. 2006 Department of Atmospheric Sciences, Nanjing University  
Hankou Rd. 22, Nanjing, China  
Associate Professor  
Teaching and researching on meteorology

- Dec. 2001 – Dec. 2003 Department of Atmospheric Sciences, Nanjing University  
Hankou Rd. 22, Nanjing, China  
Lecturer  
Teaching and researching on meteorology
- Aug. 2000 – Dec. 2001 Department of Atmospheric Sciences, Nanjing University  
Hankou Rd. 22, Nanjing, China  
Assistant Professor  
Teaching and researching on meteorology

## **Awards and Group Memberships**

- 2006 Excellent Scientific and Technological Fellow in Meteorology, Chinese Meteorological Society
- 2005 Awarded the First Prize of the Advancement of Science and Technology by Ministry of Education of the People' s Republic of China, for the research project "Research on Mesoscale Frontal System Dynamic Processes" ( third author)
- 2003 Awarded the Prize of the excellent PH. D. Thesis by Jiangsu Education Commission
- 2002 "Tu Changwang" Young Meteorological Investigator Award, Chinese Meteorological Society

## **Publications**

1. Tang, X., Z.-M. Tan, **J. Fang**, E. Munsell, F. Zhang, 2018: Impact of the Diurnal Radiation Contrast on the Contraction of Radius of Maximum Wind during Intensification of Hurricane Edouard (2014). *J. Atmos. Sci.*, **76**.
2. Chen, X., M. Xue, and **J. Fang**, 2018: Rapid Intensification of Typhoon Mujigae (2015) under Different Sea Surface Temperature: Key Processes Leading to Differences in Rapid Intensification. *J. Atmos. Sci.*, **75**, 4313-4335.
3. Bian, J., **J. Fang**, G. Chen, and C. Liu, 2018: Circulation features associated with the record-breaking typhoon silence in August 2014, *Adv. Atmos. Sci.*, **35**, 1321-1336.
4. Chen X., Y. Wang, **J. Fang**, and M. Xue, 2018: A Numerical Study on Rapid Intensification of Typhoon Vicente (2012) in the South China Sea. Part II: Roles of Inner-core Processes. *J. Atmos. Sci.*, **75**, 35-255. doi: 10.1175/JAS-D-17-0129.1.
5. **Fang J.**, O. Pauluis and F. Zhang, 2017: Isentropic Analysis on the Intensification of Hurricane Edouard (2014). *J. Atmos. Sci.*, **74**, 4177-4197.
6. Tang, X., Z. Tan, **J. Fang**, Y.Q. Sun\* and F. Zhang, 2017: [Impacts of diurnal radiation cycle on secondary eyewall formation](#). *Journal of the Atmospheric Sciences*, **74**, 3079-3098.
7. **Fang J.** and F. Zhang, 2016: Contribution of Tropical Waves to the Formation of Supertyphoon Megi (2010). *J. Atmos. Sci.*, **73**, 4387-4405.
8. Hui P., and **J. Fang**, 2016: Impact of Multi-Scale Oscillations at High and Low Latitudes on Two Persistent Heavy Rainfall Events in the Middle and Lower Reaches of the Yangtze River. *J. Meteorol. Res.*, **30**, 662-677.
9. Hui P., and **J. Fang**, 2016: Comparison of the Multi-Scale Features in Two Persistent Heavy Rainfall Events in the Middle and Lower Reaches of Yangtze River. *J. Meteorol. Res.*, **30**, 528-546.
10. Wang Hongwei, **J. Fang**, 2014: Analysis on a rainstorm related to remote typhoon during Meiyu period. *Journal of the Meteorological Sciences*, **34**: 601-611. (in Chinese)
11. Sun Yixin, **Fang Juan**, 2013: Numerical study on the initiation of the severe convective weather in Chongqing on 6 May 2010. *Acta Meteorologica Sinica*, **27**, 364-378.
12. **Fang, J.**, and F. Zhang, 2012: Effect of beta shear on simulated tropical cyclones. *Monthly Weather Review*, **140**, 3327-3346.
13. Chen Q., and **J. Fang**, 2012: Effects of vertical wind shear on intensity and structure of

tropical cyclone. *Journal of Tropical Meteorology*, **18**, 172-186.

14. Sun Y., and **J. Fang**, 2012: Synoptic analysis of the severe convection event on 6 May 2010 in Chongqing. *Journal of the Meteorological Sciences*, **32**, 609-621.
15. Rozoff, C. M., D. S. Nolan, J. P. Kossin, F. Zhang, and **J. Fang**, 2012: The roles of an expanding wind field and inertial stability in tropical cyclone secondary eyewall formation. *J. Atmos. Sci.*, doi: <http://dx.doi.org/10.1175/JAS-D-11-0326.1>.
16. **Fang J.**, and F. Zhang, 2011: Evolution of Multiscale Vortices in the Development of Hurricane Dolly (2008). *J. Atmos. Sci.*, **68**, 103-122.
17. **Fang J.**, and F. Zhang, 2010: Initial development and genesis of Hurricane Dolly (2008). *J. Atmos. Sci.*, **67**, 655-672.
18. **Fang J.**, J. Tang, and R. Wu, 2009: The effect of surface friction on the development of tropical cyclone. *Adv. Atmos. Sci.*, **26**, 1146-1156.

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- 南京大学仙林校区大气科学楼  
江苏省南京市栖霞区仙林大道163号  
210023

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