

CURRICULUM VITAE

Xiaofeng Zhao

School of Atmospheric Science, Nanjing University

Personal Information

- **Name: Xiaofeng Zhao**
- **Date of Birth: 1st January, 1983**
- **Country: China**
- **Work Unit: Lecturer at School of Atmospheric Science, Nanjing University**
- **Research Field: Atmospheric and Oceanic Parameter Inversions**
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Educated Experiences

- **Ph.D. in Atmospheric Physics and Atmospheric Environment (Sep. 2009 to Jun. 2013), School of Atmospheric Science, Nanjing University, guided by professor Sixun Huang**
- **MS in Atmospheric Physics and Atmospheric Environment (Sep. 2006 to Jun. 2009), School of Atmospheric Science, Nanjing University, guided by professor Sixun Huang**
- **BS in Radar Engineering (Sep. 2002 to Jun. 2006), School of Atmospheric Science, Nanjing University**

Specialities

- **Have good mathematical foundations, especially in inversion theories.**
- **Have devoted to refractivity retrievals for almost 6 years, and developed adjoint method for the RFC techniques and extended its application to geoacoustic inversions.**

- Have developed a simple 2D ray tracing visual tool, Ray-VT, for simulating propagations in the tropospheric environment.
(<http://pan.baidu.com/s/1gdAFB9p>)
- More than 10 years of experience in Fortran and Matlab programming.

Awards

- Outstanding Master's Degree Thesis of Jiangsu Province, 2010
- 2nd prize of the National Graduate Students Mathematical Modeling Competition, 2011
- Nanjing City Excellent Academic Paper in Natural Science, 2013
- Outstanding PHD Thesis of Jiangsu Province, 2014

Foundations

- Have been awarded a National Natural Science Foundation of China (No. 41405025)
- Have been awarded a Natural Science Foundation of Jiangsu Province, China (No. BK20140064)
- Have been awarded a scholarship under the State Scholarship Fund to pursue study in USA as a visiting scholar

Representative papers

- Zhao, X. F., and D. X. Wang (2015), Ocean acoustic tomography from different receiver geometries using the adjoint method, *J. Acoust. Soc. Am.*, 138(6), 3733–3741.
- Zhao, X. F. (2015), Source localization in the duct environment with the adjoint of the PE propagation model, *Atmosphere*, 6, 1388–1398, doi:10.3390/atmos6091388.

- **Zhao, X. F., and S. X. Huang (2014), Atmospheric duct estimation using radar sea clutter returns by the adjoint method with regularization technique, J. Atmos. Ocean. Tech., 31, 1250–1262.**
- **Zhao, X. F., Wang, D. X., Huang, S. X., et al. (2013), Statistical estimations of atmospheric duct over the South China Sea and the Tropical Eastern Indian Ocean, Chin. Sci. Bull., 58, 2794–2797, doi: 10.1007/s11434-013-5942-8.**
- **Zhao, X. F. and S. X. Huang (2012), Estimation of atmospheric duct structure using radar sea clutter, J. Atmos. Sci., 69(9), 2808–2818. (Nanjing City Excellent Academic Paper)**
- **Zhao, X. F., S. X. Huang, and D. X. Wang (2012), Using particle filter to track horizontal variations of atmospheric duct structure from radar sea clutter. Atmos. Meas. Tech., 5, 2859–2866**
- **Zhao, X. F. (2012), Evaporation duct height estimation and source localization from field measurements at an array of radio receivers, IEEE T. Antenn. Propag., 60(2), 1020–1025.**
- **Zhao, X. F., S. X. Huang, and H. D. Du (2011), Theoretical analysis and numerical experiments of variational adjoint approach for refractivity estimation, Radio Sci., 46, RS1006, doi:10.1029/2010RS004417.**