

# CURRICULUM VITA

## Ping Zhu

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### EDUCATION

- Ph.D, Division of Meteorology and Physical Oceanography  
Rosenstiel School of Marine and Atmospheric Science  
University of Miami, August 2002, Atmospheric Science
- M.S., Chinese Academy of Meteorological Science,  
State Meteorological Administration, June 1988, Atmospheric Science
- B.S., Dept. of Atmos. Science, Nanjing University, July 1985, Atmospheric Science

### PROFESSIONAL EXPERIENCE

- Assistant Professor, January/2006 - present  
Department of Earth Sciences  
Florida International University
- Postdoctoral Researcher, July/2004- January/2006  
Climate and Global Dynamics Division  
The National Center for Atmospheric Research
- Postdoctoral Researcher, July/2002 - July/2004  
Department of Atmospheric Sciences  
University of Washington
- Research Assistant, August/1997 - July 2002  
Division of Meteorology and Physical Oceanography  
Rosenstiel School of Marine and Atmospheric Science  
University of Miami
- Visiting Scholar, August/1996 - August/1997  
Institute of Geoscience, University of Tsukuba, Japan
- Associate Professor, September/1995 - August/1996  
Beijing Meteorological Institute, P.R.China

- Lecturer, September/1991 - August/1995  
Beijing Meteorological Institute, P.R.China
- Research Assistant, September/1989 - August/1991  
Beijing Meteorological Institute, P.R.China

## RESEARCH INTERESTS

- Boundary layer clouds
- Atmospheric convection
- Hurricane boundary layer
- Numerical modelling

## PROFESSIONAL MEMBERSHIPS

Member, American Geophysical Union

Member, American Meteorological Society

## AWARD

1. 1994 Outstanding College Teacher Award by Beijing High Education Department.
2. 2003-2004 Smith Prize for the most original piece of research in a Ph.D. dissertation by RSMAS, University of Miami.

## TEACHING

1. General Meteorology (undergraduate)
2. Dynamic Meteorology I (undergraduate)
3. Physical Climatology (undergraduate)
4. Boundary Layer Meteorology (graduate)
5. Dynamic Meteorology I (graduate)
6. Graduate Seminar and Advanced Graduate Seminar

## PUBLICATIONS IN INTERNATIONAL JOURNALS

1. **Zhu, P.**, 2008: A Multiple Scale Modeling System for Coastal Hurricane Wind Damage Mitigation. *Natural Hazards*, doi:10.1007/s11069-008-9240-8.

2. **Zhu, P.**, 2008: Impact of land surface roughness on the change in surface winds during hurricane landfall. *Quart. Roy. Meteor. Soc.*, **134**, 1051 - 1057. DOI: 10.1002/qj.265
3. **Zhu, P.**, 2008: Simulation and Parameterization of the Turbulent Transport in the Hurricane Boundary Layer by Large Eddies. *J. Geophys. Res.*, **113**, D17104, doi:10.1029/2007JD009643.
4. **Zhu, P.**, W. Zhao 2008: Parameterization of Continental Boundary Layer Clouds *J. Geophys. Res.* , **113**, D10201, doi:10.1029/2007JD009315.
5. **Zhu, P.**, J. Hack, J. Kiehl, C. Bretherton, 2007: Climate Sensitivity of Tropical and Subtropical Marine Low Cloud Amount to ENSO and Global Warming due to Doubling CO<sub>2</sub>. *J. Geophys. Res.*, **112**, D17108, doi:10.1029/2006JD008174.
6. **Zhu, P.**, J. Hack, J. Kiehl, 2007: Diagnosing Cloud Feedbacks in General Circulation Models. *J. Climate*, **20**, 2602-2622.
7. **Zhu, P.**, C. Bretherton, M. Köhler, A. Cheng, A. Chlond, Q. Geng, P. Austin, J.-C. Golaz, G. Lenderink, A. Lock, B. Stevens, 2005: Intercomparison and interpretation of single column model simulations of a nocturnal stratocumulus topped marine boundary layer. *Monthly Weather Review*, **133**, 2741-2758.
8. Stevens, B., C.-H., Moeng, A. S. Ackerman, C. Bretherton, **P. Zhu**, A. Chlond, S. De Roode, J. Edwards, J.-C., Golaz, H. Jiang, M. Khairoutdinov, M. P. Kirkpatrick, D. C. Lewellen, A. Lock, F. Muller, D. E. Stevens, E. Whelan, 2005: Evaluation of large-eddy simulations via observations of nocturnal marine stratocumulus. *Monthly Weather Review*, **133**, 1443-1462.
9. **Zhu, P.**, and C. Bretherton, 2004: A simulation study of shallow moist convection and its impact on the atmospheric boundary layer. *Monthly Weather Review*, **132**, 2391-2409.
10. **Zhu, P.** and B. A. Albrecht, 2003: Large eddy simulations of continental shallow cumulus convection. *Journal of Geophysical Research-Atmosphere*, **108**, No.D15, 4453, doi:10.1029/202JD003119.
11. **Zhu, P.** and B. A. Albrecht, 2002: A theoretical and observational analysis on the formation of fair-weather cumuli. *Journal of the Atmospheric Sciences*, **59**, 1983-2005.
12. **Zhu, P.** and B. A. Albrecht, 2002: Formation of fair-weather cumuli. *Bulletin of the American Meteorological Society*, **83**, 856-857.
13. **Zhu, P.** and B. A. Albrecht, and J. Gottschalck, 2001: Formation and development of nocturnal boundary layer clouds over the southern Great Plains. *Journal of the Atmospheric Sciences*, **58**, 1409-1426.
14. Wang, Q. and **P. Zhu**, 1995: Analysis of nighttime drainage wind in Heihe region. *Journal of the Meteorological Society of Japan*, **73**, 1285-1291.
15. **Zhu, P.** and R.-B. Jiang, 1995: Numerical study of oscillation phenomena in radiation fog. *Scientia Atmospherica Sinica*, **19**, 234-241.
16. **Zhu, P.**, X.-J. Xu, and X.-S. Li, 1992: A numerical study of the second-order turbulent moments in the stable stratified nocturnal boundary layer. *Advances in Atmospheric Sciences*, **9**, 201-212.

## THESIS AND DISSERTATION

1. **Zhu, P.**, 2002: Evolution of shallow cumulus convection and its parameterization. **Ph.D. Dissertation** , RSMAS/MPO, University of Miami.
2. **Zhu, P.**, 1989: Numerical studies of the stable stratified nocturnal boundary layer. **M.S. Thesis**, Chinese Academy of Meteorological Science, SMA.