

CURRICULUM VITAE: JING-XIA ZHAO

Department of Meteorology
University of Hawaii
Honolulu, HI 96822, (808) 957-2878

Positions:

Assistant Professor, Dept. of Meteor., Univ. of Hawaii, since Aug. 2017.
Assistant Researcher, Dept. of Meteor., Univ. of Hawaii, since Jan. 1994.
Research Assistant, Dept. of Atmos. Sci., UCLA, Jan. 1988-Dec. 1993.
Lecturer, Beijing Inst. of Meteor., PRC, Dec. 1984-Dec. 1987.

Education:

Ph.D., 1993, Atmospheric Sciences, UCLA.
M.S., 1990, Atmospheric Sciences, UCLA.
M.S., 1984, Atmospheric Dynamics, Academia Sinica, PRC.
B.S., 1981, Meteorology, Nanjing Inst. of Meteor., Nanjing, PRC.

Awards:

Recipient of Outstanding Student Paper Award in AGU 1991 Fall Meeting, 1992.
Recipient of the Jacob A. Bjerknes Memorial Award, UCLA, 1991.

Research interests:

- 1) Chemistry, physics and dynamics of atmospheric aerosols.
- 2) Volcanic aerosol and its impact on climate.
- 3) Aerosol formation, variation, and removal in the remote marine atmosphere.
- 4) Climate change and variability

Publications:

- Zhang Wenjun, Fei-Fei Jin, Jing-Xia Zhao, Li Qi, and Hong-Li Ren 2013 : The possible influence of a non-conventional El Niño on the severe autumn drought of 2009 in Southwest China, *J. Climate* doi: <http://dx.doi.org/10.1175/JCLI-D-12-00851.1>
- Zhang, Wenjun, Fei-Fei Jin, Jing-Xia Zhao, Jianping Li, 2013: On the Bias in Simulated ENSO SSTA Meridional Widths of CMIP3 Models. *J. Climate*, 26, 3173–3186. doi: <http://dx.doi.org/10.1175/JCLI-D-12-00347.1>
- W Zhang, FF Jin, HL Ren, J Li, JX Zhao, 2012 : Differences in Teleconnection over the North Pacific and Rainfall Shift over the USA Associated with Two Types of El Niño during Boreal Autumn *J. Meteorol. Soc. Jpn.*, 90 (4), doi:10.2151/jmsj.2012-402.
- Ren, H.-L., F.-F. Jin, J.-S. Kug, J.-X. Zhao, J. Park, 2009: A kinematic mechanism for positive feedback between synoptic eddies and NAO. *Geophys. Res. Lett.*, 36, L11709, doi:10.1029/2009GL037294.
- Jin F.-F., S. An, A. Timmermann, and J. Zhao 2003: Strong El Niño Events and Nonlinear Dynamical Heating (in press, GRL)

- Jin F.-F., S. An, A. Timmermann, and J. Zhao 2003: Linkages between El Nino and Recent Tropical Warming. Proceedings of 14th Symposium on Global Change and Climate.
- Self, S., J. Zhao, L. Norby, P. R. Rampino, and J. A. Wolff, Volatile Emissions and Stratospheric Aerosols from the 1815 Eruption of Tambora. (to be submitted to GRL)
- Turco, R. P., J.-X. Zhao, and F. Yu, 1998: A new source of tropical aerosols: ion-ion recombination (GRL, 25, 635-638)
- Self, S., M. R. Rampino, J. Zhao, and M. G. Katz, 1997: Volcanic eruption occurring at the time of El Nino events 1997 (GRL, 24, 1247-50)
- Self, S., J. Zhao, R. E. Holasek, R. C. Torres, and A. J. King, 1995: The atmospheric impact of the 1991 mount Pinatubo eruption. (Punongbayan, R. S. and Newhall, C. G., eds, in press, The 1991-1992 Eruption of Mount Pinatubo, Philippines; US Geological Survey Professional Paper)
- Zhao, J., R. P. Turco, 1995: Nucleation simulations in the wake of a jet aircraft in stratospheric flight. *J. Aerosol Sci.* 26, 779
- Zhao, J., R. P. Turco, and O. B. Toon, 1995: A model simulation of Pinatubo volcanic aerosols in the stratosphere. *J. Geophys. Res.* 100, 7315-7328.
- Zhao, J., O. B. Toon, and R. P. Turco, 1995: Origin of condensation nuclei in spring polar stratosphere. *J. Geophys. Res.* 100, 5215-5227.
- Zhao, J. 1993: Numerical studies of the stratospheric aerosol layer under background and perturbation conditions. *Ph.D. dissertation*, UCLA.
- Zhao, J.-X., and M. Ghil, 1991: Nonlinear symmetric instability and oscillations in the tropical atmosphere. *J. Atmos. Sci.*, 48, 2552-2568.
- Zhao, J.-X. and B.-Z. Zhu, 1989: Sensitivity of the multiple equilibria to governing system, mode chosen and parameter. *Adv. in Atmos. Sci.* 6, 33-43.
- Zhu, B.-Z., J.-X. Zhao, 1987: Multiple flow equilibria in tropical circulation and monsoon. *Adv. in Atmos. Sci.* 4, 375-384.
- Zhao, J.-X., A. Wang, and Y.-X. Gao, 1985: Influence of mid-latitude blocking on development of monsoon. *Plateau Meteor.*, 4, 81-98 (in Chinese).

TEACHING

Courses taught

ATMO 303	Introduction to Atmospheric Dynamics
ATMO 302	Atmospheric Physics
Met 101	Introduction to Meteorology
Met 765c	Seminars in Meteorology
Met 620	Atmospheric Radiation and Microphysics

SERVICE

- (i) Undergraduate chair (Fall of 2002-2004)
- (ii) Manuscript reviewing for JGR, GRL.
- (iii) Proposal reviewing NASA