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Current Employment

NOAA Climate and Global Change Postdoctoral Fellow,
Host: Professor Alan Plumb at Massachusetts Institute of Technology.

Research Interests

Theory and modeling of the general circulation of the atmosphere,
Stratosphere-Troposphere coupling, Climate dynamics, Climate change

Education

- **Princeton University**, Princeton, New Jersey
Ph.D. in Atmospheric and Oceanic Sciences, September 2002-September 2007
Thesis topic: *Mechanisms that control the latitude of jet streams and surface westerlies*
Advisor: Isaac Held
M.S. in Atmospheric and Oceanic Sciences, June 2004
- **Peking University**, Beijing, China
B.S. in Atmospheric Science, September 1998-July 2002
RANK in the department: **1st out of 25**

Honors and Awards

- NOAA Climate and Global Change Fellowship, 2007-2009
- Xie yibing Scholarship in Peking University, 2001
- Honor of Excellent Student in Peking University, 2000
- Honor of Excellent Student in Peking University, 1999

Teaching Experience

- **Princeton University**, Princeton, NJ
Teaching Assistant in GEO427: Introduction to Terrestrial and Planetary Atmosphere, taught by Professor George Philander. Fall 2005
- **Princeton University**, Princeton, NJ
Grader in GEO202: An Introduction to the World's Oceans, taught by Professor Jorge Sarmiento. Spring 2006

Presentations

- **Conference on the Global Circulation of the Atmosphere, California Institute of Technology**, November 2004: (poster).

- **Chapman Conference on Jets and Annular Structures in Geophysical Fluids**, Savannah, January 2006: (poster)
- **University of California, Irvine**, Department of Earth System Science, October 20, 2006: (talk)
- **Massachusetts Institute of Technology**, Program in Atmospheres, Oceans and Climate, December 4, 2006: (talk)
- **Columbia University**, IGERT Colloquium, March 2007 (talk)
- **16th Conference on Atmospheric and Oceanic Fluid Dynamics**, Santa Fe, June 2007 (talk)
- **Stony Brook University**, Institute of Terrestrial and Planetary Atmospheres Seminar, July 2007 (talk).
- **AGU Fall Meeting**, San Francisco, December 2007 (poster)

Publications

- **Chen, G.**, J. Lu, and D. M. W. Frierson: Phase speed spectra and the latitude of surface westerlies: interannual variability and global warming trend. *J. of Climate*. In press
- Lu, J., and **G. Chen**, and D. Frierson, 2008: Response of the zonal mean atmospheric circulation to El Nino versus global warming. *J. of Climate*. In press
- **Chen, G.**, and P. Zurita-Gotor, 2008: The tropospheric jet response to prescribed zonal forcing in an idealized atmospheric model. *J. Atmos. Sci.* in press
- **Chen, G.**, and I. M. Held, 2007: Phase speed spectra and the recent poleward shift of Southern Hemisphere surface westerlies. *Geophys. Res. Lett.*, 34, L21805, doi:10.1029/2007GL031200.
- Frierson, D. M. W., J. Lu, and **G. Chen**, 2007: Width of the Hadley cell in simple and comprehensive general circulation models, *Geophys. Res. Lett.*, 34, L18804, doi:10.1029/2007GL031115.
- **Chen, G.**, I. M. Held, and W. A. Robinson, 2007: Sensitivity of the latitude of the surface westerlies to surface friction. *J. Atmos. Sci.*, **64**, 2899–2915, doi: 10.1175/JAS3995.1

Academic Service

Reviewer for Geophysical Research Letter, Climate Dynamics, Journal of the Atmospheric Sciences, and the National Science Foundation.

Professional References

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