

CURRICULUM VITAE

Xin Qu

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Education

- Ph.D.* Atmospheric and Oceanic Sciences, 2003-2007, University of California, Los Angeles, USA.
Dissertation: "Snow Albedo Feedback in Climate Change"
Advisor: Alex Hall
- M.Sc.* Atmospheric and Oceanic Sciences, 2001-2003, University of California, Los Angeles, USA
- M.Sc.* Atmospheric Dynamics, 1995-1998, the Chinese Academy of Sciences, China
Thesis: "Large-scale Circulation associated with Summer Monsoon Onset in the South China Sea"
Advisor: Chong-yin Li
- B.Sc.* Atmospheric Dynamics, 1991-1995, Chengdu Institute of Meteorology, China

Professional Experience

Dep't of Atmospheric and Oceanic Sciences/Joint Institute for Regional Earth System Science and Engineering, University of California at Los Angeles, 2007-current

POST-DOCTORAL RESEARCHER: (1) Investigate climate change in the Arctic and Southern Ocean; and (2) simulate regional climate using coupled WRF-ROMS model

Dep't of Atmospheric and Oceanic Sciences, University of California at Los Angeles, 2001-2007

GRADUATE RESEARCH ASSISTANT: Investigate the role of snow albedo feedback in climate change

The Institute of Atmospheric Physics, the Chinese Academy of Sciences, 1995-1998

GRADUATE RESEARCH ASSISTANT: Study South China Sea Summer Monsoon

Research Interests

- Global Climate Variability, Climate Change and Climate Simulation
- Regional Climate Variability, Climate Change and Climate Simulation
- The role of Snow, Sea ice and Cloud Climate Feedbacks in Climate Variability and Climate Change

Honors

- “Yeh Tucheng” Award, the Chinese Academy of Sciences, 1998
- “Excellent Graduate” Award, Chengdu Institute of Meteorology, 1995

Professional Activities

- A member of American Meteorological Society since 2002 and review papers for the *Journal of Climate* and the *Journal of Applied Meteorology and Climatology*
- A member of American Geophysical Union since 2002
- Participated in the writing of 4 scientific proposals, 2 of which have been funded by NSF

Teaching Experience

TEACHING ASSISTANT: “Climate Change: from Science to Policy”, Dep’t of Atmospheric and Oceanic Sciences, University of California at Los Angeles, 2005, Prof. Alex Hall

Talks and Presentations

- Qu, X. and A. Hall, 2004: What Controls Planetary Albedo and its Interannual Variability over the Cryosphere? *AGU Fall Meeting, San Francisco, CA, December 17, 2004, poster*
- Qu, X., 2005: What Controls Planetary Albedo and its Interannual Variability over the Cryosphere? *85th Annual AMS Meeting, San Diego, CA, January 10, 2005, talk*
- Qu, X. and A. Hall, 2006: Using the Current Seasonal Cycle to Constrain Snow Albedo Feedback in Future Climate Change. *1st Graduate Climate Conference, Eatonville, WA, April 7-9, 2006, poster*
- Qu, X., 2006: The Role of Snow Albedo Feedback in Climate Change. *AGU Fall Meeting, San Francisco, CA, December 2006, invited talk*
- Qu, X., 2007: Reducing the Uncertainty of Climate Change Prediction. *University of California at San Diego. Scripps Institute of Oceanography, San Diego, CA, March 2007, invited talk*
- Mullendore, G. L., A. Hall, X. Qu and J. C. McWilliams, 2007: Low-level clouds in the Southern California Bight: Sensitivity Studies in Mesoscale Models. *Seventh Conference on Coastal Atmospheric and Oceanic Prediction and Processes and Seventh Symposium on the Urban Environment, AMS, San Diego, CA, 10-13 September 2007, poster*

Scientific Publications

1. Li, C., and X. Qu, 1999: Characteristics of Atmospheric Circulation associated with Summer Monsoon onset in the South China Sea. *Onset and Evolution of the South China Sea Monsoon and Its Interaction with the Ocean*, Y. Ding and C. Li, Eds., China Meteorological Press, 200–209.
2. Qu, X. and A. Hall, 2005: Surface Contribution to Planetary Albedo Variability in Cryosphere Regions. *J. Clim.* 18, 5239-5252.
3. Hall, A. and X. Qu, 2006: Using the Current Seasonal Cycle to Constrain Snow Albedo Feedback in Future Climate Change. *Geophys. Res. Lett.*, 33, L03502, doi: 10.1029/2005GL025127. **(Note: this work is featured in the 4th Assessment Report of the Intergovernmental Panel of Climate Change.)**
4. Qu, X. and A. Hall, 2006: Assessing Snow Albedo Feedback in Simulated Climate Change. *J. Clim.* 19, 2617-2630.
5. Qu, X. and A. Hall, 2007: What Controls the Strength of Snow Albedo Feedback? *J. Clim.* 20, 3971-3981.
6. Hall, A., X. Qu and J. D. Neelin, 2007: Improving Predictions of Summer Climate Change in the United States. *Geophys. Res. Lett.*, 35, L01702, doi:10.1029/2007GL032012.
7. Boé, J., A. Hall and X. Qu: In current climate models, an unrealistic negative feedback in the Arctic. Submitted to *J. Clim.*
8. Qu, X., J. Boé and A. Hall: Decadal Variability in the Southern Ocean. Submitted to *Geophys. Res. Lett.*
9. Fletcher, C., P. Kushner, A. Hall and X. Qu: Circulation responses to snow albedo feedback in climate change. Submitted to *Geophys. Res. Lett.*
10. Qu X., A. Hall, J. Boé, E. Mosely-Thompson and L. G. Thompson: Are recent sea ice trends in the Southern Ocean anthropogenic? In preparation.