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EDUCATION

B.S. with honors in Atmospheric Science, *Nanjing University of Information Science and Technology*, China, 1998

M.S. in Meteorology, *Peking University*, China, 2001

Ph.D. in Environmental Science & Engineering, *California Institute of Technology*, July 2006.

RESEARCH INTERESTS:

- Chemistry and Transport Model
- Interannual Variability of Ozone and Temperature
- Solar Influence on Climate
- Stratosphere-troposphere Exchange
- CO₂ Simulation and Inversion

PROFESSIONAL EXPERIENCE

- Postdoctoral Scholar, Jet Propulsion Laboratory, California Institute of Technology (2006-present)
- Graduate Research Assistant to Prof. Yuk L. Yung, California Institute of Technology (2001-2006)
- Teaching Assistant for Atmosphere-Ocean Circulations, California Institute of Technology (2003, 2005)
- Teaching Assistant for Atmospheric Radiation, California Institute of Technology (2004, 2005)

ACADEMIC AWARDS AND HONORS

- Li Ming Fellowship in California Institute of Technology (2004)
- Academic Excellence and Guang Cai Fellowships in Peking University (2000)
- Academic Excellence Fellowship in Nanjing University of Information Science and Technology (1995-1998)

SELECT PUBLICATIONS

1. **Jiang, X.**, S. Pawson, and Y. L. Yung, El Niño-Southern Oscillation in Tropical Stratospheric Ozone, *Geophysical Research Letters*, in preparation, 2007.
2. **Jiang, X.**, D. E. Waliser, R. Shia, D. Shindell, E. Roeckner, and Y. L. Yung, Distinguishing long-term trends from high frequency natural variability in the stratosphere, *Submitted to Geophysical Research Letters*, 2007.
3. **Jiang, X.**, S. Pawson, C. D. Camp, E. Nielsen, R. Shia, T. Liao, K. Jeev, V. Limpasuvan, and Y. L. Yung, Interannual variability in high latitude stratospheric ozone, *Submitted to JAS*, 2007.
4. Li, L., A. P. Ingersoll, **X. Jiang**, and Y. L. Yung, Variations in the mechanical energy cycle of the atmosphere, *Submitted to Geophysical Research Letters*, 2006.
5. **Jiang, X.**, S. J. Eichelberger, D. L. Hartmann, and Y. L. Yung, Influence of doubled CO₂ on ozone via changes in the Brewer-Dobson circulation, *Journal of the Atmospheric Sciences*, *Accepted*, 2006.
6. **Jiang, X.**, W. Ku, R. Shia, Q. Li, J. W. Elkins, R. G. Prinn, and Y. L. Yung, The Seasonal Cycle of N₂O: Analysis of Data, *In Press*, 2006.
7. **Jiang, X.**, D. B. A. Jones, R. Shia, D. E. Waliser, and Y. L. Yung, Spatial patterns and mechanisms of the Quasi-Biennial Oscillation-Annual Beat of ozone, *Journal of Geophysical Research*, *110*, D23308, 2005.
8. Ruzmaikin, A., J. Feynman, **X. Jiang**, and Y.L. Yung, Extratropical signature of the quasi-biennial oscillation, *Journal of Geophysical Research-Atmospheres*, *110* (D11), art. no. D11111, 2005.
9. Natraj, V., **X. Jiang**, R.L. Shia, X.L. Huang, J.S. Margolis, and Y.L. Yung, Application of principal component analysis to high spectral resolution radiative transfer: A case study of the O-2 A band, *Journal of Quantitative Spectroscopy & Radiative Transfer*, *95* (4), 539-556, 2005.
10. Ruzmaikin, A., J. Feynman, **X. Jiang**, D.C. Noone, A.M. Waple, and Y.L. Yung, The pattern of northern hemisphere surface air temperature during prolonged periods of low solar output, *Geophysical Research Letters*, *31* (12), art. no. L12201, 2004.
11. **Jiang, X.**, C.D. Camp, R. Shia, D. Noone, C. Walker, and Y.L. Yung, Quasi-biennial oscillation and quasi-biennial oscillation-annual beat in the tropical total column ozone: A two-dimensional model simulation, *Journal of Geophysical Research-Atmospheres*, *109* (D16), art. no. D16305, 2004.