

## Curriculum Vitae

**Name:** Steven Chan

**Current Address:** 900 Riggins Road, Apartment 913,  
Tallahassee,  
Florida 32308,  
United States of America

**Email:** scchan@coaps.fsu.edu

**Citizenship:** United States of America and SAR Hong Kong

### Education:

2008 Ph. D.; Atmospheric and Oceanic Science  
University of Maryland  
Maryland, United States of America

2001 M. S.; Meteorology  
Pennsylvania State University  
Pennsylvania, United States of America

1999 B. A.; Space & Planetary Science (Cum Laude)  
Minor in Earth Sciences  
Boston University  
Massachusetts, United States of America

### Fellowships:

NASA Earth System Science Fellowship, 09/2004 – 08/2007  
NSF East Asia and Pacific Summer Institutes for U.S. Graduate Students, Summer 2004

### Professional Memberships:

American Geophysical Union, 1998-Present  
American Meteorological Society, 2007-Present

### Professional Experience:

10/2008 – Post Doctoral Research Associate  
Florida State University  
Center for Ocean-Atmospheric Prediction Studies  
Florida, United States of America

- Regional climate modeling and global model downscaling
- North and South American climate diagnostics

06/2003 – Graduate Research Assistant  
05/2008 University of Maryland  
Department of Meteorology  
Maryland, United States of America

- Reanalysis data analysis, ERA-40 diabatic heating diagnoses
- Simple primitive equation GCM modeling
- Thesis focus:
  - North Pacific stationary waves and subtropical sea level anti-cyclone seasonal cycle
  - Diabatic/latent heating intercomparisons between reanalyses and precipitation datasets
- Thesis title: On the summer time development of the North Pacific sea-level pressure anticyclone

09/2002 – Teaching Assistant  
05/2003 University of Maryland  
Department of Meteorology  
Maryland, United States of America

- Teaching of an introductory undergraduate meteorology course of 10-25 students

06/2000 – Graduate Research Assistant  
08/2001 Pennsylvania State University  
Department of Meteorology  
Pennsylvania, United States of America

- Intercomparisons between NCAR and NASA GCM simulations and ERA-15 reanalysis
- Tropical dynamics and climate diagnostics
- Thesis title: Composite structure and variability of the eastern hemisphere's ITCZ during boreal summer in ECMWF Re-analysis, CCM 3.6 and SI2000 GCMs

09/1999 – Teaching Assistant  
12/2000 Pennsylvania State University  
Department of Meteorology  
Pennsylvania, United States of America

- Grading and tutoring of two advanced undergraduate meteorology courses of 15-60 students

01/1998 – Undergraduate Research Assistant  
05/1999 Boston University  
Center for Space Physics  
Massachusetts, United States of America

- Web site maintenance, computer modeling, and data processing
- Presentations in AGU Spring Meeting in 1998 and 1999

**Publications:**

Chan, S., 2001: Composite structure & variability of the eastern hemisphere's ITCZ during boreal summer in ECMWF Re-analysis, CCM 3.6 and SI2000 GCMs. M. S. Thesis. Pennsylvania State University Department of Meteorology, 107 pp.

Chan, S., 2008: On the summertime development of the North Pacific sea-level pressure anticyclone. Ph. D. Thesis. University of Maryland Department of Atmospheric and Oceanic Science, 138 pp.

Chan, S., and J. Evans, 2002: Intercomparison of the structure of the ITCZ in the West Pacific during the boreal summers of 1989-1993 using AMIP simulations and ECMWF Re-analyses. *J. Climate*, **15**, 3549-3568.

Chan, S., and S. Nigam, 2008: Residue diagnosis of diabatic heating from ERA-40 and NCEP reanalyses: intercomparison with TRMM. *J. Climate*, accepted.

Chan, S., S. K. Behera, and T. Yamagata, 2008: Indian Ocean Dipole influence on South American rainfall. *Geophys. Res. Lett.*, **35**, L14S12, doi:10.1029/2008GL034204.

Nigam, S., and S. Chan, 2008: On the summertime strengthening of the Northern Hemisphere Pacific sea-level pressure anticyclone. *J. Climate*, accepted.

**Poster Abstracts:**

Bayliss, S., D. Matthews, S. Oetting, C. Sullivan, J. Simmerer, M. Alothman, J. Bhattacharjya, M. Samara, T. Fritz, H. Spence, and A. Eccles, 1999: Student Participation in Satellite Dataset Recovery and Analysis. 1998 AGU Spring Meeting, Boston, MA.

Chan, S., and J. Evans, 2001: Structure of the West Pacific ITCZ in global climate models. 2001 AGU Spring Meeting, Boston, MA.

Chan, S., J. Sullivan, T. Fritz, and D. Matthews, 1999: Modeling ISEE Energetic Particle Observations During the CDAW-6 and 7 Substorm Events. 1999 AGU Spring Meeting, Boston, MA.

**Other Skills:**

Earth Sciences: GrADs, Fortran 77/90, GRIB, NetCDF, NCAR Computing Systems

Language: Chinese (native), English (fluent, second language), and Japanese (proficient)