

Cegeon J. Chan

Business Address:
MIT; Bldg. 54-1719
77 Massachusetts Ave
Cambridge, MA 02139
Telephone: (617) 253-6283
Facsimile: (617) 253-6208

Home Address:
410 Memorial Drive
Apt 242
Cambridge, MA 02139
Telephone: (617) 939-6498
Email: cegeon@mit.edu

Education **Massachusetts Institute of Technology** Cambridge, MA
PhD candidate. Atmospheric Science, anticipated June 2009. Thesis: Stratospheric Influences on the Tropospheric Weather and Climate.

Massachusetts Institute of Technology Cambridge, MA
M.S. Atmospheric Science, February 2006
Thesis: Annular Modes in a Multiple Migrating Zonal Jet Regime in an Oceanic GCM

Lyndon State College Lyndonville, VT
B.S. Meteorology, B.S. Mathematics, Cum Laude, May 2003
Senior Thesis: The Influence of Sea-Surface Temperature Anomalies on the Indian Monsoon.

Awards NASA Earth System Science Fellowship, 2003
Gil Ford Award for Meteorology, 2003

Research Experience **MIT, Department of Earth, Atmospheric and Planetary Sciences** Sep 2003 - present
Advisor: Dr. Alan Plumb Cambridge, MA
Designed and implemented systematic changes in numerical model to isolate stratospheric influences. Developed statistical techniques to predict climate change. Devised simple models to demonstrate underlying key physical mechanisms.

NASA Goddard Space Flight Center, Earth System Science Summer 2002
Advisor: Dr. Per Gloersen Greenbelt, MD

Teaching Experience **MIT, Department of Earth, Atmospheric and Planetary Sciences**
12.307(U) – Weather and Climate Laboratory Spring 2008
Developed experiments to visualize scientific processes.

12.310(U) – Introduction to Weather Forecasting
Taught current events segment. Led lab sessions. Assisted in creating problem sets. IAP 2007, 2008

DEAPS(U) - Discovery of Earth, Atmospheric and Planetary Sciences
Organized lab experiments. Assisted in creating problem sets. 2008

Mathematics Tutor, Lyndon State College Mathematics Dept.
Conducted review sessions to clarify course materials. 2000 - 2003

**Poster and
Oral
Presentations**

Chan C. J., and R. A. Plumb - SPARC 4th General Assembly, Bologna, Italy, September 2008: *The tropospheric response to stratospheric perturbations and its sensitivities to topographically-forced stationary waves*

Chan C. J., and R. A. Plumb - Northeast Storm Conference, Springfield, MA, Mar. 2008: *On the Two Distinct Zonal Jet Regimes*

Chan C. J., and R. A. Plumb - Role of the Stratosphere in Climate and Climate Change, AGU Chapman Conference, Santorini, Greece, Sept. 2007: *The Effect of Poleward Propagation on the Stratosphere-Troposphere Coupling in a Simple GCM*

Chan C. J., and R. A. Plumb - AMS Atmosphere / Ocean Dynamics Conference, Santa Fe, NM, June 2007: *Does the Poleward Propagation of the Zonal-Mean Zonal Flow Anomalies Depend upon the Slope of the Tropopause?*

Chan C. J., and R. A. Plumb - University of Maryland, June 2006: *Multiple Migrating jets in a Baroclinically Unstable Flow in an OGCM*

Chan C. J., and R. A. Plumb - Jets and Annular Structures, AGU Chapman Conference, Savannah, Ga, Jan 2006: *Annular Modes in a Multiple Migrating Zonal Jet Regime.*

Publications

Chan, C. J., and R. A. Plumb, 2008: The response to stratospheric forcing and its dependence on the state of the troposphere. submitted to *J. Atmos. Sci*

Chan, C.J., R.A. Plumb, and I. Cerovecki, 2007: Annular Modes in a Multiple Migrating Zonal Jet Regime. *J. Atmos. Sci.*, **64**, 4053–4068

**Additional
Experience**

On-air TV Meteorologist, Vermont NEWS 7 2002-2003
Designed maps using WSI Weather Producer. Created new animations.
Performed twice-daily live newscasts.

Meteorological Operations, WSI Corporation 2001-2002
Compiled and prioritized weather data. Generated graphics. Communicated with aviation and private sector clients.

Intern, WFXT FOX25 Summer, 2001
Authored nightly written forecasts for FOX25 website. Produced on-air graphics and worked in fast-paced environment to provide latest weather information.

**Leadership
Experience**

Graduate Tutor, MIT Residential Life 2007 - present
Established and maintained a safe, supporting and caring community for a 45-resident floor. Integrated more social activities. Led to 18% increase in floor retention.

President, American Meteorological Society Club 2002-2003
Organized largest nationally student-run weather conference designed to introduce students on research topics. 32 speakers and 330 attendees.
Awarded “AMS National Student Chapter of the Year.”

Lyndon State College Resident Assistant 2000-2002
Received highest evaluations from the residential community and awarded “King of Residential Life” 2000 & 2001.

Secretary, Lyndon State College Student Government Association Senate 2000-2001

Professional Memberships

Member, American Meteorological Society, 2000-present. Member, American Geophysical Union, 2005-present.

Community Service / Activities

Big Brothers Big Sisters of Massachusetts (2006-2008), Weather Columnist for the MIT Tech newspaper (2003 - present), Officer for Dept. Graduate Student Council (2004 - 2007)

References

Dr. Alan Plumb
Department of Earth, Atmospheric, and Planetary Sciences; Bldg. 54-1712
Massachusetts Institute of Technology
Cambridge, MA 02139 USA
(617) 253-6281
rap@rossby.mit.edu

Dr. Lodovica Illari
Department of Earth, Atmospheric, and Planetary Sciences; Bldg. 54-1612
Massachusetts Institute of Technology
Cambridge, MA 02139 USA
(617) 253-2286
illari@mit.edu

Dr. Merritt Roe Smith
Department of History and Technology;
Building E51-194B
Massachusetts Institute of Technology
Cambridge, MA 02139 USA
(617) 253-4008
roesmith@mit.edu