

Jason C. Furtado

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY
Ph.D. - Earth and Atmospheric Sciences

Atlanta, GA
Expected December 2010

Graduate Certificate in Public Policy

September 2009

- Specialized in environmental policy and sustainability.

COLORADO STATE UNIVERSITY
M.S. - Atmospheric Science

Fort Collins, CO
August 2005

- Thesis: On The Balanced Response of the Troposphere to Variability in the Extratropical Stratosphere

LYNDON STATE COLLEGE
B.S. - Meteorology & B.S. - Mathematics

Lyndonville, VT
May 2002

PROFESSIONAL AND WORK EXPERIENCE

- **Graduate Research Assistant**, Georgia Institute of Technology, Atlanta, GA *2005-Present*
 - Evaluated the statistics and dynamics of large-scale climate patterns in the North Pacific in coupled general circulation models.
 - Studied the influence of a variations of El Niño on climate variability and teleconnections in the Northern Hemisphere.
 - Analyzed optimal statistical methods in reconstructing tropical sea surface temperatures using paleoclimate records.
 - Assisted with and rewrote model for investigation of dynamics of cold air outbreaks using potential vorticity inversion.
- **Guest Lecturer**, Georgia Institute of Technology, Atlanta, GA *Spring 2008*
 - Presented lecture on the IPCC AR4 Working Group I Report to undergraduate honors class.
- **Teaching Assistant**, Georgia Institute of Technology, Atlanta, GA *2007 - 2008*
 - *EAS 8803 - Advanced Environmental Data Analysis* (Graduate Level)
 - Led lectures and in-class activities.
 - Prepared and graded assignments and midterm exam.
 - *EAS 1600H - Introduction to Environmental Science* (Undergraduate Honors)
 - Prepared and graded weekly assignments, study guides, and exams.
- **Graduate Research Assistant**, Colorado State University, Fort Collins, CO *2002-2005*
 - Investigated relationships between extratropical stratospheric variability and tropospheric weather and large-scale climate patterns including those associated with the Arctic Oscillation.
- **Teaching Assistant**, Colorado State University, Fort Collins, CO *Spring 2004*
 - *ATS 602 - General Circulation*
 - Graded homework assignments and group projects.

COMPUTER PROFICIENCY SKILLS

- **Programming Languages:** C, C++, FORTRAN 77, FORTRAN 90, Unix/C-Shell
- **Graphical / Statistical Processing Software:** MATLAB, NCL, GIS, GrADS
- **Software Programs:** MS Office, iLife, iWork, Adobe Illustrator, LaTeX
- **Operating Systems:** Windows, Mac OS, UNIX

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REFEREED PUBLICATIONS

- Furtado, J.C.**, E. Di Lorenzo, N. Schneider, and N. Bond 2010: North Pacific decadal variability and climate change in the IPCC AR4 models. *J. Climate*, in review.
- Di Lorenzo, K. M. Cobb, **J. C. Furtado**, N. Schneider, B. Anderson, A. Bracco, M. A. Alexander, and D. Vimont, 2010: Central Pacific El Niño and decadal climate change in the North Pacific. *Nature Geosciences*, in review.
- Furtado, J.C.**, E. Di Lorenzo, K. M. Cobb, and A. Bracco, 2009: Paleoclimate reconstructions of tropical sea surface temperatures from precipitation proxies: Methods, uncertainties and nonstationarity. *J. Climate*, **22**, 1104-1123.
- Thompson, D.W.J., **J.C. Furtado**, and T.G. Shepherd, 2006: On the tropospheric response to anomalous stratospheric wave drag and radiative heating. *J. Atmos. Sci.*, **63**, 2616 – 2629.

CONFERENCE AND WORKSHOP PRESENTATIONS

- 90th Annual Meeting of the American Meteorological Society, Atlanta, GA *January 2010*
- Georgia Tech EAS Graduate Student Symposium, Atlanta, GA *2005, 2007, 2008*
- Eastern Pacific Ocean Conference, Fallen Leaf Lake, CA *September 2008*
- IUGG XX1V 2007, Perugia, Italy *July 2007*
- Advanced Study Program “The Art of Climate Modeling”, Boulder, CO *June 2006*

SERVICE AND LEADERSHIP

- **Committee Member**, EAS Prospective Graduate Student Visit Committee *2009-Present*
 - Organized and participated in activities for incoming prospective graduate students to the Georgia Tech School of Earth and Atmospheric Sciences.
- **Speaker**, Visiting elementary school students to Georgia Tech *2008-Present*
- **Local Manager**, National Collegiate Weather Forecasting Contest / WxChallenge *2002-2010*
 - Organized team meetings, team signups, and weekly forecasting updates.
 - Founder of Colorado State University and Georgia Tech forecast teams.
- **Secretary**, Metro Atlanta Chapter of the American Meteorological Society *2009-2010*
- **President**, Lyndon State College Chapter of the American Meteorological Society *2001-2002*
- and National Weather Association (LSC-AMS/NWA)
- **Vice-President**, Beta-Alfa Chapter of the Sigma Zeta Honorary Science and Mathematics Society *2001-2002*
- **Treasurer**, LSC-AMS/NWA *1999-2000*

AWARDS AND HONORS

- **Fellowships**: Georgia Institute of Technology Presidential Fellowship, Colorado State University 3F Fellowship, AMS/NASA Earth Science Enterprise Fellowship.
- **Service**: Georgia Tech EAS Chair Service Award.
- **Academic**: Sigma Zeta Honorary Science and Mathematics Research Award, AMS Howard T. Orville Scholarship in Meteorology, Fairbanks Scales Award for Academic Distinction, Lyndon State College Robert E. Long Scholarship, Lyndon State College Presidential Scholar, Martin Luther King Jr. Foundation Scholar, Portuguese-American Foundation Scholar.
- **Forecasting**: Top forecaster in several cities for NCWFC / WxChallenge – Salt Lake City, UT (2006), Pensacola, FL (2006), and Tucson, AZ (2008).

PROFESSIONAL MEMBERSHIPS

American Geophysical Union (AGU), American Meteorological Society (AMS), Gamma Beta Phi Honorary Fraternity, National Weather Association (NWA).

REFERENCES AVAILABLE UPON REQUEST