

Jason C. Furtado

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY

Atlanta, GA

Ph.D. - Earth and Atmospheric Science • 4.0 GPA

Expected May 2010

- ❖ Advisor: Dr. Emanuele Di Lorenzo
- ❖ **Dissertation Work:** Pacific Decadal Climate Variability in Observations and Coupled General Circulation Models

Graduate Certificate in Public Policy

- ❖ Specialization in Environmental Policy

COLORADO STATE UNIVERSITY

Fort Collins, CO

M.S. - Atmospheric Science • 4.0 GPA

August 2005

- ❖ **Thesis:** On The Balanced Response of the Troposphere to Variability in the Extratropical Stratosphere
- ❖ Advisor: Dr. David W.J. Thompson

LYNDON STATE COLLEGE

Lyndonville, VT

B.S. - Meteorology & B.S. – Mathematics • 4.0 GPA

May 2002

PROFESSIONAL & LEADERSHIP EXPERIENCES

GEORGIA INSTITUTE OF TECHNOLOGY

Atlanta, GA

- ❖ Secretary, Metro Atlanta Chapter of the American Meteorological Society *2009-Present*
- ❖ Member, Prospective Graduate Student Visit Committee *2009-Present*
- ❖ Graduate research assistant with focus on climate dynamics *2005-Present*
- ❖ Local Manager, WxChallenge Georgia Tech Team *2005-Present*
- ❖ Teaching assistant, EAS 8803, Advanced Environmental Data Analysis *Fall 2008*
- ❖ Guest lecturer, EAS 2803 Honors *Spring 2008*
- ❖ Teaching assistant, EAS 1600 Honors *Fall 2007*
- ❖ Tutor for Georgia Institute of Technology Athletic Association *2006-2007*
- ❖ Thermodynamics Tutor for Jeffrey Mielcarz from The Weather Channel *Spring 2006*

COLORADO STATE UNIVERSITY

Fort Collins, CO

- ❖ Graduate research assistant with focus on stratosphere/troposphere coupling *2002-2005*
- ❖ College Radio Station DJ – KCSU 90.5 *2003-2005*
- ❖ Graduate School Senator in Student Senate *2004-2005*
- ❖ Teaching assistant, ATS 602 - General Circulation *Spring 2004*

LYNDON STATE COLLEGE

Lyndonville, VT

- ❖ President, Lyndon State College Chapter of the American Meteorological Society and National Weather Association (LSC-AMS/NWA) *2001-2002*
- ❖ Vice-President, Beta-Alpha Chapter of the Sigma Zeta Honorary Science and Mathematics Society *2001-2002*
- ❖ College Radio Station DJ – WWLR The Impulse 91.5 *Spring 2002*
- ❖ Mathematics Lab Tutor *2000-2001*
- ❖ Treasurer, LSC-AMS/NWA *1999-2000*
- ❖ Student Government House Representative *1999-2000*

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REFEREED PUBLICATIONS

- Furtado, J.C.**, E. Di Lorenzo, N. Schneider, N. Bond, and J. Overland, 2009: North Pacific decadal variability and climate change in the IPCC AR4 models. *J. Climate*, in prep.
- Di Lorenzo E., N. Schneider, K. M. Cobb, **J.C. Furtado**, and M. A. Alexander, 2009: ENSO and the North Pacific Gyre Oscillation: an integrated view of Pacific decadal dynamics.. *Geophys. Res. Lett.*, submitted.
- Furtado, J.C.**, E. Di Lorenzo, K. 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/WORKSHOP PRESENTATIONS

- ❖ 6th Annual EAS Graduate Student Symposium, Georgia Institute of Technology, Atlanta, GA November 2008
- ❖ Eastern Pacific Ocean Conference, Fallen Leaf Lake, CA September 2008
- ❖ 5th Annual EAS Graduate Student Symposium, Georgia Institute of Technology, Atlanta, GA November 2007
- ❖ IUGG XX1V 2007, Perugia, Italy July 2007
- ❖ Advanced Study Program “The Art of Climate Modeling”, Boulder, CO June 2006
- ❖ 3rd Annual EAS Graduate Student Symposium, Georgia Institute of Technology, Atlanta, GA November 2005
- ❖ 30th Annual Northeastern Storm Conference, Burlington, VT March 2005

INVITED TALKS

- ❖ NASA-GISS, New York City, New York March 2005

PROFESSIONAL MEMBERSHIPS

- ❖ American Geophysical Union (AGU) 2006-Present
- ❖ Member, Gamma Beta Phi Honorary Fraternity 2005-Present
- ❖ Knights of Columbus, 3rd Degree Knight 2004-Present
- ❖ American Meteorological Society (AMS) 2001-Present
- ❖ National Weather Association (NWA) 1999-Present

PROFESSIONAL SERVICE

- ❖ Peer reviewer for 2008 NOAA State of the Climate Report, Journal of Geophysical Research and Journal of Climate

COMPUTER SKILLS

- ❖ C, C++, FORTRAN 77, FORTRAN 90, XHTML Programming Languages
- ❖ Windows 2000/XP/Vista, Apple/Macintosh OS, UNIX
- ❖ MS Office, LaTeX, iLife, iWork, Adobe Illustrator, Adobe Professional
- ❖ GEMPACK, McIDAS, GrADS, MATLAB, NCL

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AWARDS AND HONORS

- ❖ EAS Chair Service Award *May 2008*
- ❖ WxChallenge Forecasting Contest Champion, Tucson, AZ *March 2006*
- ❖ National Collegiate Weather Forecasting Contest Champion, Pensacola, FL *April 2006*
- ❖ National Collegiate Weather Forecasting Contest Champion, Salt Lake City, UT *February 2006*
- ❖ Georgia Institute of Technology Presidential Fellowship *2005-2009*
- ❖ Knights of Columbus Council 1214 Knight of the Month *July 2005*
- ❖ National Science Foundation Graduate Fellowship Honorable Mention *2004*
- ❖ AMS/NASA's Earth Science Enterprise Graduate Fellowship *2002-2003*
- ❖ Colorado State University 3F Fellowship Award *2002-2003*
- ❖ Sigma Zeta Honorary Science and Mathematics Research Award *May 2002*
- ❖ AMS Howard T. Orville Scholarship in Meteorology *2001-2002*
- ❖ Fairbanks Scales Award for Academic Distinction *2001-2002*
- ❖ Lyndon State College Robert E. Long Scholarship *2000-2002*
- ❖ Lyndon State College Presidential Scholar *1999-2002*
- ❖ Martin Luther King Jr. Foundation Scholar *1999-2002*
- ❖ Portuguese-American Foundation Scholar *1998-2002*

VOLUNTEER WORK

- ❖ Jerry Lewis MDA Telethon, Atlanta, GA *2007-Present*
- ❖ Helped in search party for missing Georgia Tech Student *March 2006*
- ❖ Speaker to visiting elementary school students to Earth and Atmospheric Science Department at Georgia Institute of Technology *2005-Present*
- ❖ Colorado State University atmospheric science department spokesperson for tours for prospective students *2003-2005*
- ❖ Judge for Sigma Zeta Honorary Science and Mathematics Society Science Fair *March 2002*
- ❖ Founding Member of RI American Liver Foundation Chapter *2002*
- ❖ Speaker at various elementary schools in RI about weather *1999-2002*
- ❖ Lyndon State College meteorology department spokesperson for tours and presentations for prospective students and visiting schools *1999-2002*

PAST INTERNSHIPS

NASA GODDARD SPACE FLIGHT CENTER Code 913, Climate and Radiation Branch

Greenbelt, MD
Summer 2001

- ❖ Conducted research and wrote paper on cold air outbreaks and the Arctic Oscillation

WPRI-TV 12

East Providence, RI
Summer 2000

Weather Team Intern

- ❖ Prepared daily weather graphics for on-air presentations
- ❖ Assisted on-duty meteorologist with daily forecast

BLUE HILL OBSERVATORY

Milton, MA
Summer 1999

Asst. Observer and Climate Recorder

- ❖ Observed current weather variables at 12Z, 15Z, and 18Z
- ❖ Analyzed instrument readings for data errors
- ❖ Structured new spreadsheet design for more efficient data-logging