

BONNE JANE FORD

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EDUCATION

- 2011-Present **Colorado State University**, Fort Collins, CO
Ph.D. Atmospheric Science
- 2008-2011 **Colorado State University**, Fort Collins, CO
M.S. Atmospheric Science
- 2006-2008 **Valparaiso University**, Valparaiso, IN
B.Sc. Meteorology, Minor: Mathematics
- 2003-2005 **Grove City College**, Grove City, PA
Major Area of Study: Elementary Education
Emphasis: Mathematics, Science, and French

HONORS

- Dean's List, Valparaiso University 2006-2008
- Dean's List, Grove City College 2003-2005
- Kappa Delta Pi Educational Honor Society 2005-2006
- Chi Epsilon Pi Meteorology Honor Society 2007-2008
- Phi Beta Kappa 2008
- Eugene M. Rasmusson Award, Valparaiso University 2008
- Ball Aerospace Graduate Fellowship, Colorado State University 2008-2010

EXPERIENCE

- August 2008 to present **Colette Heald, Department of Atmospheric Science**, Colorado State University
Graduate Research Assistant
- Worked with the GEOS-Chem model, observations from MODIS, TES, and CALIOP and IMPROVE measurements to examine vertical distributions of pollutants during long range transport
 - M.S. Thesis: "The vertical distribution of pollutants during export and long range transport: A comparison of model simulations and A-Train observations"
- June 2007 to December 2007 **Gary Morris, Dept. of Geography and Meteorology**, Valparaiso University
Research Assistant
- As part of the Tropospheric Ozone Pollution Project (TOPP), prepped and launched ozonesondes in order to collect data on ozone levels in Houston, TX (June-August) and Valparaiso, IN (September-November).
 - Performed data analysis on the sounding data.
Presented research at the 2008 Annual AMS conference in New Orleans.

August 2007 to May 2008 **Department of Geography and Meteorology**, Valparaiso University
Lab Aide for Atmospheric Dynamics 1 & 2

August 2006 to December 2006 **Department of Geography and Meteorology**, Valparaiso University
Lab Aide for Meteorology 103

August 2007 to May 2008 **Department of Physics and Astronomy**, Valparaiso University
Grader for Physics 141

PROFESSIONAL ASSOCIATIONS

- AAAR Student Member 2010-2011
- Student Member of American Geophysical Union 2009-2011
- Student Member of American Meteorological Society 2007-2009

PRESENTATIONS

Bonne J. Ford and Colette Heald. "Vertical Distribution of Pollutants in GEOS-Chem and from Satellite Observations." Poster Presentation, 5th International GEOS-Chem User's Meeting, Harvard University, 2-5 May 2011.

Bonne J. Ford and Colette Heald. "Role of the Vertical Structure of Gas and Aerosol Pollutants During Long Range Transport." Poster Presentation, 2009 AGU Fall Meeting, San Francisco, 14-18 December 2009.

Bonne Ford, Gary A. Morris, Xiangshang Li, Bernhard Rappenglueck, Daewon Byun, Barry Lefer, Ryan Perna, Renee Boudreaux, Bridget McEvoy-Day, Leonardo Pedemonte, and Elizabeth Thompson. "The impact of residual layer ozone on surface ozone levels in Houston, Texas during TexAQS II." Poster Presentation, 10th Conference on Atmospheric Chemistry, as part of the 88th Annual AMS Meeting, New Orleans, 20-24 January 2008.

PUBLICATIONS

Ford, B. and C. L. Heald (2011): An A-Train and model perspective on the vertical distribution of pollution transport in the Northern Hemisphere, submitted to *J. Geophys. Res.*

Ridley, D. R., C. L. Heald, and **B. Ford** (2011): North African Dust Export and Impacts: An Integrated Satellite and Model Perspective, submitted to *J. Geophys. Res.*

Morris, G.A., **Ford, B.**, Rappenglück, B., Thompson, A.M., Mefferd, A., Ngan, F., Lefer, B., 2010: An evaluation of the interaction of morning residual layer and afternoon mixed layer ozone in Houston using ozonesonde data, *Atmospheric Environment*, 44(33), 4024-4034. doi: 10.1016/j.atmosenv.2009.06.057

RELEVANT SKILLS

Proficient in IDL, Fortran and Unix Environments
Experience working with NETCDF, HDF, and BPCH files
Familiar with CALIOP, MODIS, TES, OMI, MOPITT, AERONET, IMPROVE data