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EDUCATION

Colorado State University (Fort Collins, CO), <i>Ph.D. Atmospheric Science</i>	2014
Colorado State University (Fort Collins, CO), <i>M.S. Atmospheric Science</i>	2011
Valparaiso University (Valparaiso, IN), <i>B.Sc. Meteorology</i>	2008
Grove City College (Grove City, PA), <i>Elementary Education</i>	2003-2005

EXPERIENCE

Postdoctoral Research Assistant	2015-
Department of Atmospheric Science, Colorado State University Advisors: Dr. Jeffrey Pierce and Dr. Emily Fischer Projects: <ul style="list-style-type: none">• Improving forecasts of PM_{2.5} from wildfires for exposure estimates using satellite observations, the WRF-Chem model, and the Bluesky framework• Regional air quality impacts due to projected changes in fire emissions	
Graduate Research Assistant	2008-2014
Department of Atmospheric Science, Colorado State University Advisor: Dr. Colette Heald Projects: <ul style="list-style-type: none">• Determine the usefulness of constraining model PM_{2.5} with NASA satellite observations to improve health exposure estimates• Combined surface and satellite observations with model estimates to understand aerosol composition in the Southeastern United States and factors that influence distributions and seasonal trends• Examined the vertical distribution of pollutants (CO and particulates) in the Northern Hemisphere as observed by NASA satellites and as simulated in the GEOS-Chem model	
Teaching Assistant for ATS621: Atmospheric Chemistry	2011
Department of Atmospheric Science, Colorado State University	
Undergraduate Research Assistant	2007-2008
Department of Geography and Meteorology, Valparaiso University Advisor: Dr. Gary Morris Project: As part of the Tropospheric Ozone Pollution Project (TOPP), prepared and launched ozonesondes in order to analyze ozone concentrations in Houston, TX (June-August) and Valparaiso, IN (September-November)	
Lab Aide for MET372 & MET373: Atmospheric Dynamics 1 & 2	2007-2008
Department of Geography and Meteorology, Valparaiso University	
Grader for Physics 141 & 142	2007-2008

Department of Physics and Astronomy, Valparaiso University
Lab Aide for MET103: Introduction to Meteorology 2006
Department of Geography and Meteorology, Valparaiso University

AWARDS AND HONORS

David L. Dietrich Honorary Scholarship, Colorado State University 2013
Outstanding Student Paper Award, AGU Fall Meeting 2012
Ball Aerospace Graduate Fellowship, Colorado State University 2008-2010
Eugene M. Rasmusson Award, Valparaiso University 2008
Phi Beta Kappa 2008
Chi Epsilon Pi Meteorology Honor Society 2007-2008
Kappa Delta Pi Educational Honor Society 2005-2006

PROFESSIONAL ASSOCIATIONS

American Geophysical Union Member 2009-2016
AAAR Student Member 2010-2011
AAAR Member 2015
Student Member of American Meteorological Society 2007-2009

Reviewer for *Atmospheric Environment*, *Journal of Geophysical Research*, *Atmospheric Chemistry and Physics*, *Elementa*, *Atmospheric Pollution Research*

PUBLICATIONS

Kodros, J. K., C. Weidinmyer, **B. Ford**, R. Cucinotta, R. Gan, S. Magzamen, and J. R. Pierce (2016): Global burden of mortalities due to chronic exposure to ambient PM_{2.5} from open combustion of domestic waste, *submitted to Env. Res. Lett.*

Ford, B. and C. L. Heald (2016): Exploring the uncertainty associated with satellite-based estimates of premature mortality due to exposure to fine particulate matter. *Atmos. Chem. Phys.*, 16, 3499-3523, doi: 10.5194/acp-16-3499-2016.

Ford, B. and C. L. Heald (2013), Aerosol loading in the Southeastern United States: reconciling surface and satellite observations, *Atmos. Chem. Phys.*, 13, 9269-9283, doi:10.5194/acp-13-9269-2013.

Val Martin, M., C. L. Heald, **B. Ford**, A. J. Prenni, and C. Wiedinmyer (2013): A decadal satellite analysis of the origins and impacts of smoke in Colorado, *Atmos. Chem. Phys.*, 13, 7429-7439, doi:10.5194/acp-13-7429-2013, 2013.

Ford, B. and C. L. Heald (2012): An A-Train and model perspective on the vertical distribution of pollution transport in the Northern Hemisphere, *J. Geophys. Res.*, 117, D06211, doi:10.1029/2011JD016977.

Ridley, D. R., C. L. Heald, and **B. Ford** (2012): North African Dust Export and Impacts: An Integrated Satellite and Model Perspective, *J. Geophys. Res.*, 117, D02202, doi:10.1029/2011JD016794.

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.

PRESENTATIONS

- Bonne Ford, Ryan Gan, William Lassman, Gabriele Pfister, Emily V. Fischer, John Volckens, Sheryl Magzamen, and Jeffrey R. Pierce. "Downwind of the Flames: Assessing and predicting wildfire smoke related morbidity using satellites, in-situ measurements and models." Oral Presentation, American Thoracic Society Conference, San Francisco, CA, 16 May 2016.
- Bonne Ford, Emily V. Fischer, William Lassman, Jeffrey R. Pierce, Gabriele Pfister, John Volckens, Sheryl Magzamen, and Ryan Gan: How wild is your model fire? Constraining WRF-Chem wildfire smoke simulations with satellite observations. Poster Presentation, 2015 AGU Fall Meeting, San Francisco, CA, 14-18 December, 2015.
- Bonne Ford, William Lassman, Emily V. Fischer, Gabriele Pfister, and Jeffrey R. Pierce. "Estimating smoke concentrations in Fort Collins, CO from local and transported wildfire plumes." Poster Presentation, AAAR Conference, Minneapolis, MN, 14 October, 2015.
- Bonne Ford and Colette Heald. "Uncertainties in estimating health effects of PM_{2.5} exposure." Oral Presentation, 7th International GEOS-Chem User's Meeting, Harvard University, 5 May 2015.
- Bonne Ford and Colette Heald. "Constraining model estimates of PM_{2.5} for short term exposure: Considerations for mortality estimates." Poster Presentation, IGAC Conference, Natal, Brazil, 23 September 2014.
- Bonne Ford and Colette Heald. "Aerosol loading in the Southeastern United States: Reconciling surface and satellite observations." Oral Presentation, Young Scientist Symposium on Atmospheric Research, Fort Collins, CO, 20 September 2013.
- Bonne Ford and Colette Heald. "Aerosol loading in the Southeastern United States: Reconciling surface and satellite observations." Oral Presentation, 6th International GEOS-Chem User's Meeting, Harvard University, 6-9 May 2013.
- Bonne Ford and Colette Heald. "Aerosol loading in the Southeastern United States: Reconciling surface and satellite observations." Poster Presentation, 2012 AGU Fall Meeting, San Francisco, 9-13 December 2012.
- 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.