

Daniel F. D'Amico
Atmospheric Science and Climatic Studies
Department of Geography
The Ohio State University

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Professional Preparation

2006 – 2010: Valparaiso University, Bachelor of Science in Meteorology, Mathematics Minor, *Cum Laude*
2010 – 2012: South Dakota School of Mines and Technology, Master of Science in Atmospheric Sciences
2013 – 2017 (Anticipated): Ohio State University, Doctor of Philosophy (pre-candidacy) in Atmospheric Science and Climatic Studies

Research Interests

Climate modeling, land-atmosphere interactions, hydrometeorology, wildfire meteorology, synoptic meteorology, mesoscale meteorology, severe and unusual weather, climate change, biogeochemistry, remote sensing

Teaching Experience

Ohio State University, Department of Geography
FA 2013: GEOG 1900 (Introduction to Weather and Climate), Graduate Teaching Associate
Valparaiso University, Department of Geography and Meteorology
FA 2008: MET 279 (Severe Storm Prediction and Nowcasting), Grader/Class Assistant

Appointments

2013 – Present: Graduate Research/Teaching Associate in Geography, Ohio State University, Columbus, Ohio
2012 – 2013: Temporary Visiting Research Assistant, Department of Atmospheric Sciences, South Dakota School of Mines and Technology
2011 – 2012: Local Manager, WxChallenge Forecast Competition, South Dakota School of Mines and Technology, Rapid City, South Dakota
2010 – 2012: Graduate Research Assistant in Atmospheric Sciences, South Dakota School of Mines and Technology, Rapid City, South Dakota
2011 – 2012: President, SDSMT Weather Association, Rapid City, South Dakota
2010 – 2012: Vice President, SDSMT Weather Association, Rapid City, South Dakota

2011 – 2012: Secretary, Black Hills Local Chapter of the American Meteorological Society, Rapid City, South Dakota

2009 – 2010: Undergraduate Research Assistant, NCAR Earth Observing Laboratory Profiling of Winter Storms Project, Champaign, Illinois

Relevant Academic Awards

Nelson Fellow 2011-2012: Awarded to a graduate student in recognition of achievement in chemistry, chemical engineering, physics, geology, geological engineering, mathematics, or atmospheric sciences.

Ivanhoe Fellow 2011-2012: Awarded to a graduate student for excelling research in a scientific or environmental field.

NASA South Dakota Space Grant Consortium Research Stipend 2010: Awarded to a deserving graduate student that is researching topics related to NASA goals and strategic vision.

Professional Organization Involvement

American Meteorological Society: Member since 2007

Chi Epsilon Pi National Meteorology Honor Society: Member since 2010

WRF User Community: Member since 2010

National Weather Association: Member since 2012

Publications

D'Amico, D. F., W. J. Capehart, C. K. Wright, and G. M. Henebry, 2011: Downscaling in WRF from regional climate to storm scale for different vegetation and boundary condition sources. *12th Annual WRF Users Workshop*, Boulder, CO, National Center for Atmospheric Research, 15 pp.

D'Amico, D. F., 2012: Simulating impacts of alternative land management and vegetation phenologies on Great Plains hydrometeorology and hydroclimate using WRF-ARW. M. S. Thesis, Department of Atmospheric Sciences, South Dakota School of Mines and Technology, 207 pp.

D'Amico, D. F., P. A. Norton, W. J. Capehart, J. F. Stamm, V. Kovalskyy, and G. Henebry, In preparation: Sensitivity of Northern Great Plains hydroclimate to alternative land management and phenology. *J. Climate Appl. Meteor.*

Presentations at Professional Conferences

Guseman, J., V. Vincente, and **D. F. D'Amico**, 2010: Severe weather case study exercise. *8th Annual Great Lakes Meteorology Conference*, Valparaiso, IN, Northwest Indiana Chapter of AMS/NWA, interactive presentation.

D'Amico, D. F., W. J. Capehart, C. K. Wright, and G. M. Henebry, 2011: Downscaling in WRF from regional climate to storm scale for different vegetation and boundary condition sources. *12th Annual WRF Users Workshop*, Boulder, CO, National Center for Atmospheric Research, poster presentation.

Capehart, W. J., **D. F. D'Amico**, P. Norton, J. Stamm, V. Kovalskyy, and G. Henebry, 2012: Impacts of alternative land management on Northern Great Plains hydroclimate. *92nd Annual Meeting of the American Meteorological Society*, New Orleans, LA, American Meteorological Society, oral presentation.

D. F. D'Amico, P. Norton, W. J. Capehart, J. Stamm, V. Kovalskyy, and G. Henebry, 2012: Impacts of alternative land management and vegetation regimes on Northern Great Plains hydroclimate. *2012 Western South Dakota Hydrology Conference*, Rapid City, SD, United States Geological Survey, oral presentation.

Graduate Advisors

Capehart, William, J., South Dakota School of Mines and Technology (M.S.)
Montenegro, Alvaro, Ohio State University (Ph.D.)