

Alexander V. Matus

CONTACT INFORMATION	AO&SS Building, Room 1345 1225 West Dayton Street Madison, WI 53706	<i>E-mail:</i> amatus@wisc.edu <i>Website:</i> http://sun.aos.wisc.edu
EDUCATION	University of Wisconsin-Madison , PhD, Atmospheric Sciences (expected May 2016) University of Wisconsin-Madison , MS, Atmospheric Sciences, Aug. 2013 Pennsylvania State University , BS (Honors), Meteorology, May 2009	
PUBLICATIONS	Matus, A. , T. L'Ecuyer, and J. Kay, 2014: Role of Clouds in Global Assessments of Aerosol Direct Radiative Effects. <i>J. Climate</i> , In press. L'Ecuyer, T., A. Matus , and D. Henderson, 2014: Is Cloud Cover the Key to Estimating Aerosol Direct Radiative Forcing? <i>Nature Geosciences</i> , In press.	
CONFERENCE PRESENTATIONS	Matus, A. and T. L'Ecuyer. 2014. Satellite estimates of aerosol species contributions to global aerosol direct effects. 94th AMS Annual Meeting. Atlanta, Georgia. Matus, A. and A. Schloss. 2012. Real-time automated cloud classification from live webcams. ESIP Federation Winter Meeting 2012. Washington, D.C. Matus, A. , L. Hudnall, J. Murray, and A. Krueger. 2010. The impacts on air traffic of volcanic ash from the 2009 Mount Redoubt eruptions. 90th AMS Annual Meeting. Atlanta, Georgia.	
RESEARCH EXPERIENCE	NASA LARSS National Program , Hampton, Virginia <i>Intern at NASA Langley Research Center</i> May - August 2009 Performed analysis of the 2009 Mount Redoubt eruptions and associated impacts on commercial aviation due to the dispersion of volcanic ash. NASA DEVELOP National Program , Hampton, Virginia <i>Intern at NASA Langley Research Center</i> May - August 2008 Evaluated aspects of data processing associated with the CALIPSO mission and presented results live on NASA TV at NASA Headquarters in Washington, D.C. PERU: Environmental Issues Across the Americas , Peru <i>Interdisciplinary Researcher</i> December 2008 Conducted interdisciplinary study at research stations in the Madre de Dios Region of Peru to investigate the effects of regional climate change on communities in Amazonia. ICELAND: Volcanoes, Glaciers, and their Societal Impacts , Iceland <i>Interdisciplinary Researcher</i> May 2008 Conducted field work on aspects of geology, glaciology, and meteorology using lidar, GPS, and seismometers during a 12-day expedition across southern Iceland.	
HONORS AND AWARDS	Aviation, Range, and Aerospace Meteorology (ARAM) Best Student Paper, 2010 Texas A&M University Regent's Graduate Fellowship, 2009-2010 Pennsylvania State University Distinguished EMSAGE Laureate, 2009	

PROFESSIONAL
WORKSHOPS

Community Earth System Model (CESM) Tutorial, Boulder, Colorado

Workshop Participant

July 2012

Participated in a 5-day workshop for graduate students to learn how to interpret, initialize, and modify the CESM climate model for scientific applications.

Weather and Society Integrated Studies (WAS*IS), Boulder, Colorado

Workshop Participant

August 2010

Engaged in a 9-day interdisciplinary workshop to discuss how atmospheric scientists can change the weather enterprise by integrating social science into meteorological practice.

MENTORING
EXPERIENCE

Center for Educational Opportunities (CEO), Madison, Wisconsin

Academic Coach

August 2011 - December 2012

Provide academic tutoring and peer mentoring to undergraduate students from low-income families.

Earth and Mineral Sciences Exposition (EMEX), State College, Pennsylvania

Student Volunteer

February 2009

Taught prospective high school students about college opportunities in atmospheric sciences through tours, demonstrations, and discussions.

Penn State Branch of the AMS (PSUBAMS), State College, Pennsylvania

Organization Officer

August 2008 - May 2009

Organized guest speaker events, internship and graduate school information sessions, and student mentorship programs for undergraduates.

LEADERSHIP
EXPERIENCE

Weather and Society Integrated Studies (WAS*IS), Boulder, Colorado

Workshop Participant

August 2010

Engaged in a 9-day interdisciplinary workshop to discuss how atmospheric scientists can change the weather enterprise by integrating social science into meteorological practice.

NCAR Undergraduate Leadership Workshop, Boulder, Colorado

Workshop Participant

June 2008

Participated in a 5-day workshop to learn key professional leadership skills while gaining valuable insight on the atmospheric research community in Boulder.

Penn State Campus Weather Service, State College, Pennsylvania

Team Leader

August 2005 - May 2009

Led weekly shifts to produce weather forecasts for the campus newspaper, *The Daily Collegian*. Volunteered as a shift member to forecast for local radio and video clients.

COMPUTER SKILLS

- Languages: Python, MATLAB, Perl, C++, Visual Basic.
- Applications: L^AT_EX, ArcGIS, Google Earth, ENVI.
- Operating Systems: Unix/Linux, Windows.