Christina L. Wall

Personal Information

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Areas of Concentration

Convection
Remote Sensing
Precipitation
Aerosols
Mountain Weather
TRMM
CloudSat
MODIS

Programming Languages

IDL HTML MATLAB FORTRAN

EDUCATION

2013 Ph.D. Atmospheric Science, University of Utah
 "The Impact of Aerosols on Convective Clouds: A Global
 Perspective"
 Committee: Ed Zipser, Susan van den Heever, Jay Mace, Tim
 Garrett, and Steve Krueger
 2009 M.S. Atmospheric Science, University of Utah
 "Characteristics of Monsoonal Thunderstorms in Arizona
 and New Mexico"
 Committee: Ed Zipser, John Horel, and Chuntao Liu
 2006 B.S. Meteorology, Summa Cum Laude, University of

CURRENT POSITION

Oklahoma

2013-present Postdoctoral Researcher for Dr. Ed Zipser University of Utah

PROFESSIONAL EXPERIENCE

2013	Attendee of Preparing for an Academic Career in the
	Geosciences workshop by On the Cutting Edge
2007-2008	Graduate Fellow; Water, the Environment, Science,
	and Teaching (WEST), NSF GK-12 Fellowship
2006-2013	Graduate Research Assistant for Dr. Ed Zipser
	University of Utah
2004-2005	Mesonet Operator, Oklahoma Mesonet

FIELD EXPERIENCE

2012	Mountain Terrain Atmospheric Modeling and
	Observations (MATERHORN)
	Radiosonde launches
2011	Midlatitude Continental Convective Clouds
	Experiment (MC3E)
	Forecaster, NPOL operator
2011	Storm Peak Laboratory Cloud Property Validation
	Experiment (STORMVEX)
	Radiosonde launches, operations, and
	education

2011	Sounding Observations of Lake-effect Precipitation Experiment (SOLPEX)
	Radiosonde launches and Doppler on Wheels (DOW) operations
2010	Persistent Cold Air Pool Study (PCAPS)
	Radiosonde launches, CO ₂ observations
2006	Meteor Crater Experiment (METCRAX)
	Set up, sensor maintenance, and support

PEER-REVIEWED RESEARCH

- **Wall, C**. L., E. J. Zipser, C. Liu, 2013: An Investigation of the Aerosol Indirect Effect on Convective Intensity using Satellite Observations, *J. Atmos. Sci.*, in press.
- **Wall, C.** L., C. Liu, E. J. Zipser, 2013: A Climatology of Congestus in the Tropics using CloudSat. *J Geophys, Res. Atmos.*, **118**, 6478–6492. doi: 10.1002/jgrd.50455
- **Wall, C**. L., E. J. Zipser, C. Liu, 2012: A Regional Climatology of Monsoonal Precipitation in the Southwestern United States Using TRMM. *J. Hydrometeor*, **13**, 310–323. doi: 10.1175/JHM-D-11-031.1

CONFERENCES AND SEMINARS

- Wall, C. and E. Zipser, 2012: Regional Impacts of Aerosols on Convection: Using Satellite and Reanalysis Data to Isolate Aerosol Effects, Abstract A53R-0458, 2012 Fall Meeting, AGU, San Francisco, CA.
- **Wall, C.**, 2012: Observations of convective clouds and precipitation in the Southwest United States using TRMM and the A-Train, Southwest Climate: Past, Present, and Future Workshop sponsored by the Institute for Geophysics and Planetary Physics, September 6-7, 2012, Jemez Springs, NM.
- **Wall, C.**, C. Liu, and E. Zipser, 2011: Study of tropical deep convection and its role in transport of trace gases using multi-satellite observations from the A-Train, Abstract A23D-0199, 2011 Fall Meeting, AGU, San Francisco, CA.
- **Wall, C.** and B. Berry: The ASCENT Workshop: Practical Lessons on Being a Successful Scientist, Department Seminar, August 25, 2011.
- **Wall, C.**, E. Zipser, and C. Liu, 2009: Diurnal Cycle of Monsoon Thunderstorms in Arizona and New Mexico from Spaceborne and Surface-based Radar, 13th Conference on Mesoscale Processes, Salt Lake City, UT.
- **Wall, C**: Characteristics of Monsoonal Thunderstorms in Arizona and New Mexico, Master's Defense, July 30, 2009.

- **Wall, C.** and E. Zipser, 2009: Diurnal cycle of monsoon rainstorms in complex terrain from spaceborne and surface-based radar, EGU General Assembly, Vienna, Austria.
- **Wall, C**. C. Liu, and E. Zipser, 2008: Characteristics of Monsoon Precipitation in the Southwest US using TRMM, 13th Conference on Mountain Meteorology, Whistler, British Columbia, Canada.
- **Wall, C.**, C. Liu, and E. Zipser, 2008: Characteristics of TRMM Precipitation Features at Different Elevations in Mexico, 3rd International TRMM conferences, Las Vegas, NV.
- Shapiro, A., **C. Wall**, and E. Fedorovich, 2006: Coriolis Effects in Katabatic Flow along a Differentially Cooled Sloping Surface in a Stratified Fluid, 17th Symposium on Boundary Layers and Turbulence, San Diego, CA.

FORECASTING EXPERIENCE

2007-2012	Forecaster, Utah Ski Weather website
	Forecasted for each ski resort in Utah 1-3 times per week
2011	Forecaster, MC3E Field Project
	Created a forecast and led forecast discussions to determine
	which days were best suited to IOPs, allowing 24 hours of lead
	time for the ER-2 and UND Citation to prepare for missions.
2006-2008	Forecaster, University of Utah Campus Forecast
	Led a group of undergraduate students in developing a forecast for
	the university, which was displayed on monitors around campus.
2002-2004	Forecaster, Oklahoma Weather Lab
	Developed forecasting skills by forecasting for the University of
	Oklahoma.

SERVICE, HONORS, AND OUTREACH EXPERIENCE

2012	Reviewer for Journal of Atmospheric Science
2013	Scientist role model for at-risk youth in Santa Fe, New Mexico
2012-2013	Vice President, Utah Chapter of the American Meteorological Society
2012	Reviewer for Journal of Arid Environments
2012	Guest lecturer for Cottonwood Canyons Foundation
	Taught session on winter weather in Utah.
2012	Guest lecturer at Salt Lake Community College
	Taught segment on tornadoes and severe weather.
2011	Student Assistant, Atmospheric Science Collaborations and Enriching
	NeTworks (ASCENT) workshop
2011-2012	Program Committee Chair, Utah Chapter of the
	American Meteorological Society

2010-2012 Volunteer guide for the Wasatch Wildflower Festival Led hikes in the Wasatch for all ages. 2008-2011 Volunteer snowshoe field trip leader Led snowshoe field trips designed for 4^{th} - 6^{th} grade by the Cottonwood Canyons Foundation (CCF), a non-profit organization that promotes stewardship of the local watershed. Topics included hydrology, local fauna, ecology, public lands, and human impacts. 2007-2010 Science fair judge for multiple elementary and high school science fairs in the Salt Lake valley 2007-2008 Ski ranger for the Cottonwood Canyons Foundation (CCF) Educated skiers at Solitude Mountain Resort about wildlife. weather, hydrology, and the environment. 2007-2008 Science teacher for 4th and 6th grade classes at Escalante Elementary Planned lessons and taught 2-4 classes/week as part of the WEST Fellowship. 2006 Elected to Phi Beta Kappa 2006-2012 Guest speaker/educator at K-12 schools in Salt Lake Spoke with a variety of age groups from a summer camp at the Utah Museum of Natural History for 5-6 year olds to high school science classes. Primary age group was 4th grade because weather is part of the 4th grade science core curriculum. After-school groups contained all ages. Topics ranged from snow, to general weather and processes, to providing tours of the DOW radar truck. 2005 Teaching Assistant for Severe and Unusual Weather class at University of Oklahoma Taught two class sessions and graded papers.

PROFESSIONAL AFFILIATIONS

Member of the National Association of Geoscience Teachers since 2013. Member of the American Geophysical Union since 2006. Member of the American Meteorological Society since 2000.