

Carol M. Ciliberti

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Work Experience:

Research Associate

Department of Meteorology, University of Utah
135 South 1460 East, Rm. 819
Salt Lake City, Utah 84112
Supervisor: John Horel, 801-581-7091
04/96 - present:

I implemented a local data assimilation scheme over domains in the Western United States. My current research involves developing improved methods of data assimilation at very high spatial and temporal resolution, and analysis validation. I use the analysis to research mesoscale flow over complex topography. I wrote computer code to interface local data sets with the assimilation program. I wrote and maintain scripts producing operational analysis products. I created and maintain a web based display of graphics and information pertaining to the assimilation system. I provided weather forecasting support for several field research experiments. I have co-authored scientific research papers, and have presented research at international conferences.

Meteorological Technician

Forest Service Utah Avalanche Center
2242 West North Temple
Salt Lake City, Utah 84116
Supervisor: Bruce Tremper, 801-521-5005
11/95 - Present (Seasonal), GS-08

I prepare and disseminate mountain weather forecasts and back country avalanche advisories. I assess and integrate large, diverse data sets pertaining to snow stability and avalanche hazard. I prepare recordings of avalanche information, and web based avalanche and weather forecasts. I perform live radio broadcasts, and interview with local and national media. I helped to develop data exchange with the ski resorts and local government agencies. I developed a web-based interactive map graphic of remote surface station data. I present mountain weather lectures and avalanche safety seminars to the public and other avalanche safety personnel.

Student Trainee

National Weather Service Western Region Headquarters, Scientific Services Division
125 South State, Room 1210
Salt Lake City, Utah 84138-1102
Supervisor: Andy Edman 801-524-5131
06/00-09/00: Seasonal, GS-09

I worked to implement an objective analysis system at Western Region Headquarters, similar to the operational analysis I maintain at the University of Utah. I helped to coordinate distribution of the analyses to National Weather Service Forecast Offices.

Graduate Research Assistant

Department of Meteorology, University of Utah
135 South 1460 East, Rm. 819
Salt Lake City, Utah 84112
Supervisor: Jan Paegle, 801-581-7180
06/92 - 11/95

I improved the performance and efficiency of a mesoscale numerical weather prediction model and developed a new upper boundary condition designed to remove gravity waves from the model solution. This model development involved Fortran programming, and modification of existing Fortran code. I worked with graphical display programs to analyze and display 3-dimensional gridded output from the numerical model. I substitute-taught a graduate level numerical weather prediction course for the meteorology department at the University of Utah.

Student Trainee

National Weather Service Western Region Headquarters, Scientific Services Division
125 South State, Room 1210
Salt Lake City, Utah 84138-1102
Supervisor: Ken Mielke
06/90-09/91: Seasonal, GS-03,04

I assisted in research and development projects in the Scientific Services Division of the Western Region Headquarters. This involved programming in Fortran, work with C programs, use of graphical display programs and spreadsheet packages. I assisted in a forecast verification study, created a new display of precipitation forecasts and helped to prepare local weather forecasts.

Trail Crew/Fire Crew Member

Evanston Ranger District, Wasatch-Cache National Forest
1565 Highway 150, Suite A
Evanston, WYoming 82931
05/88 - 09/88 (Seasonal), GS-03

I was a member of a district pumper truck crew, to be fire ready at all times. We worked with the Wasatch Regular Fire Crew, travelling to several large project fires in Idaho and smaller fires in state. Other duties included trail development and campground maintenance.

Seasonal Worker

Kamas Ranger District, Wasatch-Cache National Forest
Kamas, Utah 84036
Supervisor: Dan Symmes
06/85 - 09/87 (Seasonal), GS-03

I worked as a wilderness ranger in the High Uinta Wilderness Area. As a Youth Conservation Corps crew leader, I supervised a group of teenagers working on basic trail, campground, and forest maintenance. As trails contract supervisor I designated and inspected work done by a contractor to the Forest Service. I was also a member of the Wasatch-Cache Regular Fire Crew, called out on a rotating basis. I participated in a number of multi-week project fires in the Western United States.

Education

26 Semester hours Ph.D. research (see appendix for details)
University of Utah, Salt Lake City, Utah 84112

Master of Science in Meteorology, 1995
University of Utah, Salt Lake City, Utah 84112

Bachelor of Science in Meteorology (summa cum laud), 1992
University of Utah, Salt Lake City, Utah 84112

43 Quarter hours, undergraduate course work, 1981-1982
University of Montana, Missoula, MT 59801

High school Degree 1981
Hellgate High School, Missoula, MT 59801

References: Included in the 'Appendix to Resume'.