

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:

My current work involves the implementation and application of a local data assimilation system. Ongoing research includes developing improved methods of data assimilation at very high spatial and temporal resolution, and over complex terrain. I have written and modified computer code to interface local data sets with the assimilation program. I also 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. This work involves extensive use of a variety of graphical display packages, C-shell programming and html programming. I have also done extensive writing and modification of Fortran computer code and some simple programming and code modification in C. I have co-authored four conference preprints and have presented research papers at national and international conferences. I have also provided weather forecasting support for several meteorological field research experiments. I am co-author of a refereed journal publication currently in review.

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)

I prepare and disseminate mountain weather forecasts and back country avalanche forecasts for the Wasatch Mountains of northern Utah. I developed the skills to assess and integrate large, diverse data sets pertaining to snow stability and avalanche conditions. I prepare telephone recordings of avalanche information, and web based avalanche and mountain weather products on a daily basis. I perform live radio broadcasts daily, and have frequent communication with local and national media. I helped to develop data exchange with the ski resorts, the Utah Department of Transportation, and other local agencies I worked with National Weather Service personnel to develop a web-based display, including an interactive map graphic of remote surface station data. I worked with existing C programs to improve the processing and web-based display of the weather station data. I prepare and present mountain weather lectures and avalanche safety seminars to the public and other avalanche safety personnel.

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
9/90-9/91: Seasonal

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)

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 and improvement. Related skills include chain saw maintenance and operation.

Seasonal Worker

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

I worked as a wilderness ranger, educating people about low-impact camping and recreating in forests and wilderness areas. As a Youth Conservation Corps crew leader, I supervised a group of teenagers working on projects including: slash piling for prescribed burning, building fences, clearing trails, and painting campground structures. Considerable emphasis was placed on maintaining safe working conditions for my crew. As the 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

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

References:

Included in the 'Appendix to Resume'.