

Amanda Sheffield

"Amanda"



Graduate Institution: Colorado State University

Location: Fort Collins, CO

Graduate Discipline: Atmospheric Science

Hometown: Elyria, Ohio

Research Interests:

My research interests lie in cloud physics and the complex production of precipitation, an important factor in global climates. Natural and a changing climate affect aerosol and dust production, evaluation of aerosol effects on clouds and precipitation has become increasingly important. My research interests lie in how aerosols affect precipitation processes in clouds. These processes are complex, affected by different types of clouds, multiple aerosol effects, and liquid/ice generation and competition. Using a high resolution mesoscale model and field observation data, I hope to determine how liquid droplets and ice particles are formed by aerosols, how they affect and compete one with another, and the result surface precipitation.

About me:

Outside of graduate work, I am involved in student recruitment at CSU and the student planning committee for the student conference at the annual meeting of the American Meteorological Society (AMS). This planning committee includes planning a two-day student symposium for undergraduate and graduate students who are studying atmospheric science through professional development and guest speakers. My overall career goals include completing a PhD in Atmospheric Science then continuing on to become either a professor at a research university or scientist at a research institution or national lab. I am particularly interested in field campaigns and observations, and hope to continue this after graduate work. Previous notable awards I have received include, National Oceanic and Atmospheric (NOAA) Administration Ernest F. Hollings Scholar (2007-2009), Howard T. Orville Scholarship in Meteorology from the AMS (2008), Phi Beta Kappa (2008), and AMS Graduate Fellowship (2009-2010). I have also had previous research experiences with NASA, NOAA, and NSF REU programs as an undergraduate.



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