



Beth Friedman

Graduate Institution: University of Washington

Graduate Discipline: Atmospheric Chemistry

Hometown: Bellevue, WA

Relevant SC Research: Biological and Environmental Research

Research Interest:

My research interests involve the interactions between aerosol particles and clouds, in order to better understand the impacts of aerosol particles on the Earth's radiative balance. Specifically I am interested in the chemical and physical properties of aerosol particles that act as cloud condensation nuclei (CCN) and ice nuclei (IN). Research techniques and methods of interest include ambient measurements, environmental chamber experiments, single particle mass spectrometry, and particle generation and modification in the laboratory

investigating the ice nucleation activity of soot particles, and also studied CCN and IN in the field at Storm Peak Laboratory in Steamboat Springs, CO.

In the future, I hope to combine my passion for atmospheric chemistry with my enjoyment of advising and interacting with students through teaching, possibly at a small college. Outside of academics, I enjoy exploring Seattle, hiking, volunteering, traveling, participating in and watching sports, and spending time with family and friends.

About Me:

I am currently finishing my fourth year as a graduate student in the Department of Atmospheric Sciences at the University of Washington after graduating with a chemistry degree from Carleton College. At the University of Washington, I am a member of Dr. Joel Thornton's research group, and I also collaborate with Dr.

Daniel Cziczo at MIT. My current research involves both laboratory and field measurements focusing on the chemical composition of activated droplets and ice particles. Previously in my graduate work, I conducted laboratory experiments at the Pacific Northwest National Laboratory,



U.S. DEPARTMENT OF
ENERGY

Office of
Science