

Mallory Ladd



The Bredesen Center for Interdisciplinary Research and Graduate Education

Chemical Sciences Division

Environmental Sciences Division

Climate Change Science Institute

Oak Ridge National Laboratory

Mallory is a doctoral student and NSF GRFP fellow at Oak Ridge National Laboratory and The University of Tennessee working on the Next Generation Ecosystem Experiments project (NGEE-Arctic). She is pursuing her PhD in energy science and engineering with a concentration in analytical chemistry. Her research interests include the development and application of mass spectrometry-based techniques to monitor and quantify biogeochemical processes in the soil. Currently, Mallory is characterizing how low molecular weight soil organic nitrogen species vary across an Arctic landscape and how the chemical composition and functionality of this pool impacts plant productivity under a changing climate. Previously, Mallory received her B.Sc. degree in chemistry from the University of Toledo where she evaluated how warming and changing seasonality impacts decomposition rates and plant growth in the Alaskan tundra by monitoring microbial enzyme activity and nitrogen availability.

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