

Johanne Albrigtsen is a Ph.D. student in the Graduate Program of Hydrologic Sciences working with Dr. Scott Allen studying the complex relationships between water, soil, and vegetation at the landscape level. Her research focuses on the ecohydrology of snow-soil-vegetation interactions in Denali National Park. Johanne conducts both winter and summer field studies collecting empirical data to understand the mechanisms behind vegetation changes in the subarctic of Alaska. With support from the Nevada NASA Space Grant fellowship, she plans to leverage remotely sensed data to complement her ongoing field investigations. Specifically, Johanne will test how MODIS products capture ground-observed consequences of tree establishment on water and carbon fluxes. This step is key to predicting widespread consequences of changing ecosystem trajectories.