



Graham VanderSchelden



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The NSPIRE IGERT Program is a multidisciplinary student doctoral training program designed to create a new generation of scientists with broad and rigorous training in nitrogen cycling who seamlessly integrate nitrogen cycle science for effective communication with public policy makers.

Research title: Effects of reactive nitrogen fluxes on forest atmospheric chemistry.

Graham is interested in the effect of atmospheric reactive nitrogen fluxes in forest systems on local atmospheric chemistry. It is known that changing NO_x mixing ratios in an atmospheric system will drastically change the reaction pathways of organic compounds. Graham's research will examine the effect of elevated reactive nitrogen deposition, specifically from anthropogenic sources, on atmospheric chemistry in a forest system by measurements of nitrogen compounds and VOCs. The goal of this research is to determine the effect that anthropogenic gaseous nitrogen emissions have on natural forest systems.

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