



Mailea Miller-Pierce



BA, Biology (Sonoma State University)

BA, Environmental Studies (Sonoma State University)

MS, Biological Sciences (University of Rhode Island)

*PhD Student in Environmental and Natural Resource
Sciences (Washington State University)*

Advisor: John Bishop

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: The influence of anthropogenic nitrogen deposition on species interactions and ecological resilience

Pacific Northwest forests in close proximity to urban areas are projected to receive higher levels of nitrogen (N) deposition in coming decades. Increased N loads may have significant consequences for host tree health and defense against insect outbreaks, as high levels of N deposition have been correlated with increased invasion rates and insect herbivore success. Specifically, Mailea's research will investigate how simulated N deposition impacts plant-insect interactions and ecosystem resilience in forests throughout the Cascades.

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