



## Tabitha Brown



*BS Environmental Science (North Carolina State University)*

*MS Soil Science (Washington State University)*

*PhD student in Soil Science (Washington State University)*

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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: Management Implications for Terrain and Soil Regulation of C and N Dynamics

Tabitha's research will focus on characterizing soil organic matter dynamics, namely carbon (C) and nitrogen (N) storage and cycling under no-tillage agriculture in the dryland Pacific Northwest. This research aims to use landscape scale and rotation based approaches to address i) individual and interacting roles of the C and N cycles; ii) inefficiencies in N management; iii) use of precision agriculture techniques for managing agroecosystem storage and cycling of C and N; and iv) implications for N and C policy. This research will be advised by Dr. David Huggins (Dept. Crop and Soil Sciences, major advisor), Dr. Jeff Smith (Dept. Crop and Soil Sciences), Dr. Kent Keller (School of Earth and Environmental Sciences), and Chad Kruger (WSU Center for Sustaining Agriculture and Natural Resources).

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