

NRESS PHD PROGRAM PROPOSAL DEFENSE

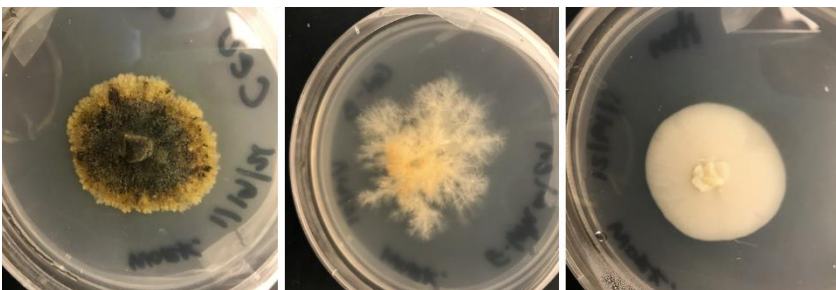
A TRAIT-BASED FRAMEWORK FOR THE FORMATION AND PERSISTENCE OF FUNGAL-DERIVED SOIL ORGANIC MATTER

**PRESENTER
EMILY WHALEN**



Soils contain twice as much carbon as the atmosphere and vegetation combined in the form of soil organic matter (SOM). Soil microbes (fungi and bacteria) are important agents of both SOM formation and

destabilization, the latter often leading to the loss of carbon from soils as carbon dioxide. My research examines the microbial traits that favor SOM formation, with a focus on fungi. Understanding the factors that render soil microbes net SOM accumulators may make the management of soils for carbon accrual possible, with implications for climate change mitigation and soil fertility.



**NATURAL RESOURCES AND EARTH SYSTEMS
SCIENCE (NRESS) PH.D. PROGRAM**



ALL WELCOME

WHEN

Friday

April 16, 2021

12:00pm

WHERE

Via Zoom

<https://unh.zoom.us/j/92386122146?pwd=dll0SnhwY3RaNnUrUGpSMTkrWm5hZz09>

Password: 886245

ADVISOR

Dr. Serita Frey

DEGREE

**Earth &
Environmental
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