

Stanford



Hannah Naughton

Ph.D. Student in Environmental Earth System Science

Bio

EDUCATION AND CERTIFICATIONS

- M.S., University of Michigan, Ann Arbor , Conservation Ecology (2014)
- B.S., The College of William & Mary , Chemistry, Biology (2012)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

General research interests: How environmental chemistry influences soil and sediment microbial community dynamics and carbon cycling. Microbial activity plays a large role in carbon storage, greenhouse gas release, and the transport of toxic metals. However, microbial processes differ vastly depending on local environmental conditions. I study how the availability of substrates microbes use to generate energy affects microbial ecology and the processes and rates controlling carbon cycling.

Publications

PUBLICATIONS

- **Phylogenetic distance does not predict competition in green algal communities** *ECOSPHERE*
Naughton, H. R., Alexandrou, M. A., Oakley, T. H., Cardinale, B. J.
2015; 6 (7)
- **Local Solvent Acidities in beta-Cyclodextrin Complexes with PRODAN Derivatives** *JOURNAL OF PHYSICAL CHEMISTRY B*
Naughton, H. R., Abelt, C. J.
2013; 117 (12): 3323–27
- **Carbonyl-Twisted 6-Acyl-2-dialkylaminonaphthalenes as Solvent Acidity Sensors** *JOURNAL OF ORGANIC CHEMISTRY*
Green, A. M., Naughton, H. R., Nealy, Z. B., Pike, R. D., Abelt, C. J.
2013; 78 (5): 1784–89