Title: Noticing the non-vasculars: How lichens and mosses shape environments, from microclimates to ecosystems

Abstract: While trees and grasses get the most attention, they aren't the only primary producers in most terrestrial environments. Non-vascular "plants" such as lichens and bryophytes present a set of convergent approaches to the challenge of being a terrestrial photosynthetic organism that make for interesting comparisons with vascular land plants. Their small size and reliance on atmospheric sources of water and nutrients leads to sometimes quite different yet sizeable impacts on ecosystems that have been historically overlooked. My work seeks to understand both the functional ecology and the ecosystem consequences of lichens, bryophytes and similar terrestrial autotrophs.