

ES SEMINAR SERIES

12:30-1:30 pm
04/06/2022

[Zoom](#)

Lauren McPhillips

*Green infrastructure solutions for water
resources management*



Abstract: Over the last several decades, it has become clear that urbanization has had major adverse impacts on the hydrology and water quality of downstream water bodies. An increasingly popular solution for managing stormwater has been implementation of green stormwater infrastructure solutions, such as retention basins or bioswales. Here I discuss some of my work at the site scale evaluating biogeochemical function of green stormwater infrastructure. I'll also discuss insights at the city and watershed scale around types of green infrastructure being implemented and watershed-scale hydrologic function, and where major gaps are looking towards the future.



Bio: *Dr. Lauren McPhillips is currently an Assistant Professor co-appointed in the departments of Civil & Environmental Engineering and Agricultural & Biological Engineering at Penn State University. Her work broadly focuses on hydrology and biogeochemistry in the built environment, with a particular interest in green infrastructure and ecological engineering solutions. She has a BS in Science of Earth Systems and MS and PhD in Biological and Environmental Engineering from Cornell University. She was also a Postdoctoral Fellow for the Urban Resilience to Extremes Sustainability Research Network based at Arizona State University, and has previously worked for the US Geological Survey as a hydrologic technician.*