Modeling the hydrology of the Washington Park Arboretum and surrounding land

Chris Watson

Advisors: Dr. Sarah Reichard, Dr. Soo-Hyung Kim, Dr. Monika Moskal

Goals:

• To better understand how the land surrounding the WPA affects plant collection and management
• Model the hydrology and land use of the areas surrounding the WPA
• Determine management implications
• Test accuracy

Methods

• Use geospatial information systems (GIS) analysis and light detection and ranging (LiDAR) data to determine areas of high water flow
• Locate high flow areas and test accuracy of model during and after rain events

Images provided by UW Remote Sensing & Geospatial Analysis Laboratory and UW Botanic Gardens