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### **Area of Expertise:**

- Nutrient cycling
- Soil ecology
- Forest and riparian zone ecology
- Ecosystem service assessment
- Science-based decision making

### **Focus of Research:**

- Use of green infrastructure and low impact development to reduce nutrient loading in surface waters
- Role of urban forests and urban trees in reducing nutrient loading for the Chesapeake Bay
- Use of agricultural best management practices to improve soil quality
- Resilience of stormwater best management practices to climate change
- Ecosystem services of hybrid solar-agricultural and solar-grassland systems
- Use of water harvesting to mitigate environmental challenges in semi-arid environments

### **Current Funded Projects (Source):**

- Using innovative practices to enhance soil quality for vacant lot afforestation (TREE Fund)
- Linking ecosystem services and governance of water resources in urbanized landscapes (NSF)