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### **Area of Expertise:**

- Soil microbial ecology
- Wetland soil microbial communities and function
- Carbon and nitrogen cycling in wetlands and agricultural lands
- Urban soil ecology

### **Focus of Research:**

- Understanding the mechanisms for carbon storage in freshwater tidal wetlands
- Examining the effects of urbanization and land use change on microbial community composition and function
- Quantifying the impact of new sustainable agricultural practices on soil microbial ecology

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

- Plant/soil microbe interactions and plant health in modern cropping systems (USDA)
- EAGER: Earthworm diversity at multiple scales: What can genetics tell us about the distribution of these important soil organisms? (NSF)
- Testing the effects of tire leachate on mosquito invasions (Maryland Agricultural Experiment Station)
- Can Bloom Improve Soil Health? (DC water)
- Visualization of soil microbial community spatial structure: Advancing soil printing technology (Maryland Agricultural Experiment Station)
- Can soil carbon amendments improve wetland restoration and jump-start microbial activity? (Maryland Water Resource Research Center)