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Area of Expertise:

- Environmental / Aquatic toxicology
- Aquatic endocrine disruption
- Legacy contaminants

Focus of Research:

- Abundance, fate and transport of poultry litter derived fecal estrogens
- Efficacy of composting at reducing/eliminating aqueously-extractable estrogens from poultry litter
- Efficacy of composting at reducing/eliminating antimicrobials residuals from poultry litter
- Implications of poultry litter agricultural application strategy (no-till, conventional tillage, turbo-till, and sub-surface injection) on estrogen transport in surface runoff
- Effects of pelletization on estrogenicity of broiler litter

Current Funded Projects (Source):

- Mussel Deployment, Monitoring and Sampling for Organic Constituents in Anacostia River Tributaries: 2016-2018 (DC DOEE)
- Toxicity Testing of Leachate from Maryland Coal Ash Management Facilities (NRG Energy, Inc.)
- Investigation into Molecular Effects of Contaminants on Wildlife (USGS)
- Efficacy of an In-vessel Aerated Turned" (IVAT) Compost System to Mitigate Environmental Contaminants-of-Concern in Biosolids and Poultry Litter (HCAE)
- Field Validation of Non-Lethal Laparoscopic Technique for Detection of Intersex in Regional Bass Populations (MWRRC)
- Analysis of Microplastics in Chesapeake Bay and Coastal Mid-Atlantic Water Samples (NOAA)
- The Environmental Concerns of Arsenic Additives in Poultry Litter: Literature Review
- Vegetable oils as a dietary lipid source for improvement of Omega-3 production in Nile tilapia (*Oreochromis niloticus*) (Egyptian Cultural and Educational Bureau)