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Area of Expertise:

- Animal environment management
- Poultry production management
- Environmental enrichment and animal welfare
- Animal agriculture air quality and emission

Focus of Research:

- Poultry litter management
- Poultry housing thermal environment management
- Evaluation of emerging air pollution control technologies
- Improving poultry welfare with environmental enrichment
- Characterizing process emission factors and developing emission inventories from animals
- Developing novel mass vaccination administration methods in poultry hatchery

Current Funded Projects (Source):

- Innovative approaches to capture nitrogen and air pollutant emissions from poultry operations (USDA NRCS)
- Developing and evaluating an innovative litter amendment application system for poultry operations (USDA NIFA)
- Using Poultry Litter-Derived Biochar to Control Ammonia Emissions (Delmarva Seed)