

2026 UF Water Institute Symposium Poster Directory

First Name	Last Name	Organization	Abstract Title
María de la Caridad	Abreu Moreras	Independent Researcher	Marine Water and Sand in Concrete: A Sustainable Strategy for Water-Sensitive Coastal Infrastructure
Labake	Agunbiade	University of Florida	Effects of Irrigation with Potassium Fertilization on the Growth of Bamboo in Florida
Sheilla Constance	Apio	Florida State University	Assessing the Influence of Spatial Patterns on Hydrologic Response in a Highly Urbanized Watershed
Adeyinka	Ayodele	University of Florida	Boosting Compliance with Residential Irrigation Restrictions: Evidence-Based Strategies
Paige	Babushkin	Florida State University	Numerical Modeling of Pesticide and Fertilizer Transport in South Florida
Jesse	Badu - Yeboah	Florida Agricultural and Mechanical University	Gis-Based Spatio-Temporal Modeling of Green Infrastructure Co-Benefits Across the State of Florida
Albert	Barbaretta	Florida Gulf Coast University	Effectiveness of a Peroxide Algaecide with Flowing Conditions at a Lake Okeechobee Outflow Structure
Dhrubo	Barua	University of South Florida	Automated Mapping of Wetlands and Waterbodies from mid-20th Century USGS Topographic Maps
Noor Ul	Basar	University of Florida	Effect of Variable Nitrogen Rates on Growth, Yield, and Fruit Quality of HLB-Affected Citrus Trees
Hailey	Bauer	Florida Polytechnic University	Enhancing Public Trust in Drinking Water: Affordable Groundwater Treatment Solutions
shiva	Bhambota	University of Florida	Impact of On-Farm Management Decisions on Corn Production: A Four-Year Analysis from the Step Program
Moges Kidane	Biru	University of Florida	SHAPE-SSA: A region-specific Soil Health Assessment Protocol and Evaluation
Lexi	Bolger	Thompson Earth Systems Institute	The Swamp for the Springs: An Educational Campaign to Connect the UF Community with Florida Springs
Lopes	Bonda	University of Florida	Physiological and Nutritional Dynamics of Young Macadamia Trees to Nitrogen Fertilization Under Acid
Rio	Bonham	University of Florida	TEK In Tech: Evaluating Baseline Flood Models for Fusion with Traditional Ecological Knowledge (TEK)
Artur	Borgo	Federal Institute of Espírito Santo at Vitoria	Optimizing Urban Drainage System with Green Infrastructure for Coastal Cities Resilience
Taylor	Burgess	University of Florida	Biogeochemical and Vegetation Responses to Restoration and Grazing in Florida WRE Wetlands
Jay	Capasso	University of Florida	On-Farm Demonstrations for Improved Irrigation and Nutrient Management
Giuliana	Caprotti	University of Florida	Enhancing Nutrient Cycling in Citrus Production Using Sorghum Sudan Grass as a Cover Crop

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Marie	Cecil	Florida State University	Impacts of Chlorothalonil on Ion Concentrations in Surface Waters in the South Florida Region
Cristel	Cedeno	University of Florida	Exploring Variability in Irrigation Return Flow to Groundwater
Taryn	Chaya	University of Florida	Seasonal Biogeochemical Dynamics in a Managed Mosquito Impoundment in the Indian River Lagoon
Jacopo	Composta	University of Florida	Quantifying Morphological Response of Oyster Reef Breakwaters to Tidal and Wave Forcing
Lindsey	Cromwell	University of Florida	Temporal Lags Between Discharge and Water Chemistry in Florida Springs
Susanta	Das	University of Florida	Soil Water Deficit & Irrigation Impacts on Ohio Maize and Soybean Yields Using Machine Learning
ANKITA	DATTA	University of Florida	Influence of Land Use and Land Cover Changes on Water Quality in Everglades STA Watersheds
Mohana	Debnath	Florida State University	Groundwater–Surface Water Dynamics and Green Stormwater Infrastructure-Based Adaptation
Nikhil Raj	Deep	University of Florida	Spatio-Temporal Downscaling and Forecasting of SMAP Soil Moisture Using Hybrid Machine Learning
Chamoda	Dissanayake	University of Florida	Engineered Wetlands to Treat Reclaimed Water: A Solution for Current Water Quality Concerns?
JoAnn	Donald	University Of Florida	Quantifying Phosphorus Desorption Kinetics in Sandy Soils: Implications for Florida Watershed Health
Jessica	Donaldson	University of Florida	Molecular Insights into PFHxA Toxicity: Transcriptomic Analysis in Zebrafish and Eastern Oysters
Tia	Duke	Florida A&M University	Lead-Resistant Bacterium VMI-TD-ORR from Oak Ridge Reservation Site Soil: A Feasible Candidate for L
Seyed Abolfazl	Ebrahimi	University of Florida	Spatial and Temporal Variability of Water Quality in U.S. Rivers
Rabi	Elabor	Florida A& M University	GIS and Remote Sensing for Spatio-Temporal Interpolation of Climate Variables in Ungauged Watersheds
Alex	Faulkner	Institute for Water and Environmental Resilience (IWER)	The Economic Costs and Benefits of Land Conservation Easements in North Central Florida
Noah	Francis	Florida A&M University	Manganese Resistant Bacterium VMI-NF-ORR: A Potential Candidate for Manganese Removal from Polluted
Ava	Gabrys	University of Florida	Effects of Human, Livestock, and Wildlife use on Microbial Communities of Kenyan Water Pans
Ryan	Gains	University of Florida	Breaking The Unbreakable – A Hybrid Cd-Tio2/Non-Thermal Plasma System for Enhanced Pfas Degradation
Ella	Gerace	University of Florida	Testing Microbial Infections as a Stress Marker to Grazing and Water Quality in Florida's Seagrasses

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Namrata	Ghimire	University of Florida	Hydrological And Water-Quality Responses of a Grazed Pasture: Field Monitoring and APEX Simulation
Faith	Hale	University of South Florida	Wetland Soil Organic Matter Storage as A Response to Hydrologic Variation
Nicholas	Haley	University of Florida	Estimating Preferences for Strategic Property Relocation Programs in US Coastal Regions
Ashley	Hennessey	University of Florida	Acclimation in Action: Recycled Water Boosts Nutrient Uptake Overtime
Katherine	Henning	University of Florida	Fish Communities in a Changing Environment; The Function of Aquifer Seeps and Springs as Essential
Md Omer	Hossain	University of South Florida	Potential Effects of Climate Change on Groundwater Availability & Temperature, South-Central Alaska
Alexis	Jackson	University of Florida	Connecting Hydrology and Soil Organic Carbon Storage in Southeastern US Flatwoods Wetlands
Cyrus	Januarie	University of Florida	Nitrogen Fate and Leaching Dynamics Under Mature Bamboo (<i>Dendrocalamus Asper</i>) on the Florida Soils
Yifan	Jing	University of Florida	Assessing Water Conservation Potential of a Tabletop Strawberry Production System in High Tunnels
Rachel	Kerr	University of South Florida	Salt Marsh Loss and Flood Risk in Tampa Bay (2015–2025) From Urbanization and Sea Level Rise
Michael	Knight	University of South Florida	Can Eager Beavers or Beaver Analogs Rehydrate Wetlands in South-Central Alaska?
Hannah	Knotts	University of Florida	Evaluating the use of satellite imagery for stormwater pond quality management in Florida, USA
Megan	Kramer	University of South Florida	Field Comparison of Hydrodynamics on Mangrove-Vegetated, Unvegetated, and Hybrid Shorelines
Anjali	Kumari	Florida State University	Impacts of Future Land Cover on Nutrient and Sediment Load Across the Southeast United States
Hai	Le	University of Florida	Introduction of a Prototype for an Automated In-Situ Enterococci Monitoring System
Zamil Ahamed	Limon	University of South Florida	Advancing Historical Wetland and Lake Mapping with GeoAI-Driven Analysis of Grayscale Aerial Imagery
Wei	Mao	Florida State University	Assessing Nutrient and Pesticide Dynamics from Agricultural Fields to Lakes in South Florida Through
Hunter	Markowich	University of South Florida	Analyzing Water Level Extremes in the Continental United States
Alyssa	Meyers	University of Florida	Impact of Developmental Aquatic Exposure to Environmentally-Relevant Levels of Pfas and Pfas Mixture
Mirian Yadira	Molina de Cruz	University of Florida	Community Hydropower for Sustainable Forests and Livelihoods in Honduras

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Mark Norman	Mumpande	UNIVERSITY OF FLORIDA	Integrated Effects of Compost, Irrigation, And Controlled-Release Fertilizers on Citrus Tree Growth
Eduart	Murcia	University of Florida	Super-Resolution of Sentinel-2 Imagery for Model Calibration in Florida's Stormwater Treatment Areas
Taznin	Naher	University of Florida	Adaptive Decision Tool for Sustainable Water Management in the Old Brahmaputra River, Bangladesh
Nolan	Nguyen	Florida Polytechnic	Evaluating Residential Irrigation Policies and Community Water Sustainability
Cody	O'Brien	Florida State University	Improved Prediction of Future Compound Coastal Floods by Better Representing the Physical Processes
Bethany	O'Donnell	University of South Florida	Historical Wetland Mapping Utilizing Readily Available Geospatial Datasets
Olanrewaju	Ologunde	University of Florida	Soil and Water Interactions Drive Crop Seeding Growth
Tunde	Oluwatuyi	University of Florida	Pgpb-Biochar Improves Soil-Water-Nutrient Management in Citrus Under Reclaimed-Water Irrigation
K.O.	Osimiri	University of Florida	Hidden Mineral Drivers of Microbial Diversity and Function in Nitrate-contaminated Karst Aquifers
Dylan	Pace	University of Florida	Political Affiliation and Florida Red Tide Risk Perceptions
Monika	Peddapuli	University of Florida	Optimizing Zinc Fertilization to Resilience of Hlb-Affected Citrus
Dinesh	Phuyal	University of Florida	Refining Phosphorus Diagnostics in Organic Soils: Bridging Agronomic Needs and Water Quality Goals
Aaron	Portmess	University of Florida	Water Quality Impacts of Phosphorus from Soil Amendments in Florida's Sandy Soils
Varshitha	Prasanna	University of Florida	Field and Modeling Approaches to Irrigation and Nitrogen Management in Potato
Michelle	Prieto-Sanchez	University of Florida	Soil and Crop Monitoring Using Microwave Satellites for Improved Water Management
Fabian	Quichimbo	University of Florida	Automated Spectral Deconvolution for Quantitative Dye Tracing
Zanti	Rains	University of Florida	Coastal Monitoring During Hurricane-Induced Storm Surge
ABHISHEK	RAJAN	University of Florida	Clean Lakes, Higher Prices: Evaluating the Economic Returns of Improved Water Quality
Rajesh	Rathore	Florida A & M university	Microbial Gatekeepers of Mercury Fate:Geochemical and Metagenomic Insights from the ORR Water System

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Baylie	Reisch	Baker WATER Lab	Microplastic Analysis Originating from Water and Sediment Samples in Florida: A Multi-Site Study
Fabiola	Rodriguez Rodriguez	University of Florida	PFAS Remediation Mechanisms in Solid Matrices and Mechanochemical Degradation Potential in Biosolids
Rosemarie	Rosales	Florida A & M University	Copper Resistant Bacterium VMI-RR-ORR From Oak Ridge Reservation Site: A Suitable Candidate for Copper
Chase	Royall	University of South Florida	Enhancing Broad-Spectrum Urban Stormwater Treatment with Biochar-Amended Bioretention Media
Ali	Salou Moumouni	Florida Agricultural & Mechanical Engineering	AI-Based Prediction of E. Coli in Urban Watersheds Using Interpretable Models
Megan	Sanford	University of Florida	Understanding the Microbial Community Response to Simulated Sea-Level Rise Along a Salinity Gradient
Katharine	Schlachter	University of Florida	The Context Dependency of Facilitation: Potential Pitfalls of Seagrass-bivalve Co-restoration
Sankalp	Sharma	University of Florida	Determining Site-Specific Soil Water Retention Curves For Precision Subirrigation In Florida
SURAJ	SHRESTHA	University of Florida	Water Level Seasonality in Wetlands of the US Atlantic Coastal Plain
Sunita	Shrestha	University of Florida	Carbon Dynamics Along Terrestrial-Aquatic Interface in Coastal Plain Wetlandscape
Bhimsen	Shrestha	University of Florida	Mobile Drip Irrigation to Improve Water Use and Minimize Nitrate Leaching in Sandy Soil
Rakesh	Singh	University of Florida	Protecting Groundwater by Placement: Nitrate and Drainage Outcomes in North Florida Corn
Maya	Stuhlmann	Florida Polytechnic University	Recovery of Rare Earth Elements Using Electrochemical Reactor
Gabriela	Sullivan	University of Florida	Stakeholder Perceptions of Sustainable Urban Landscapes in Florida
Thanaporn	Thongthum	University of Florida	Spatial Modeling of Escherichia Coli in St. Johns River Ecosystems, Florida
Gurjoban Singh	Tiwana	UF/IFAS	Effects of Nitrogen Fertilization on Silage Corn Yield and Water Quality in Florida
Ngoc	Trieu	University of South Florida	A Systematic Literature Review on Water Quantity and Water Quality Modeling Tools
Van-Khuong	Trinh	University of Florida	Novel Approach for Monitoring Biofilm Dispersion in Drinking Water Distribution Systems
Boaz	Tulu	University of Florida	Enhancing Satellite Image Resolution through UAV-Based Ground Truth Using GenAI and Diffusion Models
Berson J	Valcin	University of Florida	Evaluation of Phosphorus Sorption Materials for Agricultural Aquatic Ecosystems Application

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Emma	VanderMeulen	University of Florida	Persistently Distinct PPCP Profiles in the Lake Huron-Erie Corridor: A multiyear NMDS Study
Lilit	Vardanyan	University of Florida	Water Quality Risks and Phosphorus Retention in Florida Soils
Valentina	Wagner	University of Florida	From Loopholes to Landscapes: Legal Pathways for Water Resilience
Alexander	Wang	Maclay School/Florida State University	Machine Learning-Based Time-Series Forecasting of Water Quality Dynamics in a Drawdown Lake
Alex	Webster	University of Florida	A Novel HPLC–GIS Framework for Tracking Septic Tank Leachate Using Caffeine as a Biomarker
Ondine	Wells	University of Florida	Stakeholder Perspectives on Advancing Water-Efficient Landscapes in Florida
Melika	Yavari Nia	University of Florida	Hotspots of Coastal Groundwater Risk: Data–Model Synthesis of Response to Sea-Level and Climate Change
Mohsen	Yavary Nia	University of Florida	Analytical Prediction of Estuarine Salinity and Hysteresis
Masoud	Yazdanpanah	University of Georgia	Correcting the Climate Conversation: What Drives Experts to Challenge Misinformation on Social Media