

Robert Weaver, Ph.D.

Associate Professor | Ocean Engineering and Marine Sciences at Florida Tech

Melbourne, FL, US

Dr. Weaver's areas of expertise include coastal flooding, coastal transport, water quality and littoral processes.

About

Dr. Robert Weaver's research focuses on coastal eco-engineering and coastal hydrodynamics/storm surge inundation. He joined Florida Tech in 2011, where he educates the next generation of coastal engineering professionals to develop science-based engineering solutions to coastal challenges (e.g., habitat loss, sea level rise, coastal water quality, hurricanes and storm surge inundation). Dr. Weaver came to Florida Tech after working as a post-doctoral research assistant at the Institute of Marine Sciences at University of North Carolina-Charlotte, where he developed 2D/3D high resolution coastal models for predicting wave and storm surge and tracking particles (e.g. oil from Deepwater Horizon Blowout, oyster larvae). Dr. Weaver was instrumental in founding the Indian River Lagoon Research Institute at Florida Tech in 2013 and initiating the Living Dock program. His current research includes real-time coastal modeling of waves and water levels, coastal flooding and transport, living shoreline/living dock design, and coastal eco-engineering.

Industry Expertise

Education/Learning, Research

Areas of Expertise

Coastal Flooding?, Coastal Eco-engineering, 2D and 3D Circulation Modeling, Coastal Transport, Water Quality, Littoral Processes, Living Shorelines

Education

University of Florida

Ph.D. Coastal and Oceanographic Engineering

University of Florida

M.S. Coastal and Oceanographic Engineering

University of North Carolina at Greensboro

B.S. Mathematics

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