

Robert Fiegelist

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Education

University of Georgia <i>Master of Science in Civil and Environmental Engineering</i> GPA: 4.0	Athens, GA May 2023
University of Notre Dame <i>Bachelor of Science in Environmental Engineering</i> GPA: 3.7; Dean's List (Fall 2019, Spring & Fall 2020)	Notre Dame, IN May 2021

Knowledge and Skills

MATLAB, XBeach, Microsoft Excel, ArcGIS, Trimble RTK, Linux HPC, HEC-RAS, R, Flow3D, Civil3D Hydraflow

Experience and Work

Graduate Research Assistant for Dr. Matthew Bilskie (mbilskie@uga.edu) <i>Coastal Ocean Analysis and Simulation Team (COAST).</i>	Athens, GA Fall 2021-present
<ul style="list-style-type: none">Working to improve methods for calculating wave runup and water levels on a USGS-funded projectApplying the XBeach model across the East Coast and Gulf of Mexico to develop coastal hazards forecastingFieldwork monitoring Hurricane Ian's water levels and an experiment measuring wave runup at the coast	

Design Project with McCormick Engineering, LLC <i>Two-semester senior capstone with 3 other peers</i>	South Bend, IN Fall 2020- Spring 2021
<ul style="list-style-type: none">Designed a controlled release of stormwater from a local basin to a downstream systemReduced flooding at a local golf course and eliminated the need to discharge to combined sewers	

Summer Internship at Commonwealth Engineers, Inc. <i>Engineering Intern, Full-time and in-person for 8 weeks.</i>	Indianapolis, IN Summer 2020
<ul style="list-style-type: none">Experience in projects regarding water treatment, storage, and distribution for Indiana cities/townsHeavily involved in the research and writing of preliminary engineering reports for active clients	

Summer Internship at the Center for Civic Innovation <i>Environmental Data Lab Team, Full time for 8 weeks.</i>	South Bend, IN Summer 2019
<ul style="list-style-type: none">Integrated a weather station and sensors near and in a commonly flooded city creekDeveloped a live data site for flooding trends and restored a section of the creek with city engineers	

Conferences and Presentations

American Geophysical Union, Oral Presentation	December 2022, Chicago, IL
<ul style="list-style-type: none">"A Process-Based Model for Forecasting Wave Runup along the U.S. East Coast and the Gulf of Mexico"	

Leadership, Service, and Clubs

Clean Water Science Network Mentor	2021-present
<ul style="list-style-type: none">Mentoring an undergraduate Latin American student working towards graduate school in the U.S.Seminars and discussions in environmental engineering and tutoring for English reading and writing skills	
Notre Dame Siegfried Hall Sustainability Commissioner	2018
Notre Dame Environmental Engineering Society	2019-2021