

Stefano Biondi

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EDUCATION

Ph.D. in Coastal Engineering, GPA: 4.0	University of Florida May 2026
M.S. in Hydraulic Engineering, GPA: 3.7	University of Padova Apr 2023
B.S. in Civil Engineering, GPA: 3.6	University of Padova Oct 2019

SKILLS

Coding: Python, MATLAB, C++, Fortran, Bash, SLURM, html

Field and lab Sensors: Nortek: ADCP, ADV. YSI-Sontek: HYCAT, EXO2, ProDSS. HOBO: Pressure and Salinity loggers.

Models and Tools: OpenFOAM, Delft3D, HEC-RAS, SWAN, HPC, Xbeach, FLOW-3D

EXPERIENCE

Research Engineer , NIST, Gaithersburg, MD Quantifying wave fields generated by hurricane storms.	Jul 2025 - current
Experimental research , ERDC, Vicksburg MS Setting up and performing experiments on morphodynamics in nearshore environments	May 2025 - Jul 2025
Field Data Collection , GTM Research Reserve, FL Collected water quality/hydrodynamic data in artificial lakes; conducted bathymetric surveys.	Oct 2023 - Oct 2024
Physical modeling , University of Padova, Italy wave flume physical experiments to quantify wave attenuation and forces by porous structures	Apr 2023 - Jun 2023
Research Scholar , University of Florida Researched wave energy dissipation & turbulence using HPC-optimized CFD models.	Jul 2022 - Aug 2023
Calculus/Physics Tutor , University of Padova, Italy Tutored advanced mechanics, physics, and calculus to first-year college students.	Oct 2019 - Nov 2021

CONFERENCES

COP28 , Dubai, UAE Presenting the panel: Access to Supercomputing in Climate Research	Dec 2023
State of The Reserve , GTM Reserve, Ponte Vedra, FL Presenting: Delft3D numerical model to contain Nitrogen accumulation in estuaries	Feb 2025
WolfDynamics OpenFOAM Workshop , Genova, Italy Presenting the research: Quantifying wave energy dissipation by wavescreens	Jul 2023
Hipergator Symposium , University of Florida Lightning talk on CFD challenges in wave modeling	Oct 2024

EXTRACURRICULAR

Gator Motorsports Aerodynamics Team, UF: Chassis design for FSAE competition.

Swimming: 7x Italian National Finalist, Regional Record Holder (50 m Backstroke).

Masterchef: Finalist of the 2018 Italian edition.

LANGUAGES

Italian, English (*Native*), Spanish (*Intermediate*), French (*Basic*).