

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, CMD

Engineering: Hydraulics and Hydrodynamics, Coastal Processes, Numerical Modeling, CAD drawing, Geotechnics, Structures, Applied Math, Aerodynamics.

Models and Tools: OpenFOAM, Delft3D, HEC-RAS, SWAN, HPC, Microsoft Excel

EXPERIENCE

Research Engineer, NIST, Gaithersburg, MD Jul 2025 - current
Quantifying wave loads on structures with 2D and 3D numerical modeling.

Field Data Collection, GTM Research Reserve, FL Oct 2023 - Oct 2024
Collected water quality/hydrodynamic data in Guana Lake; conducted bathymetric surveys.

Physical modeling, University of Padova, Italy Apr 2023 - Jun 2023
wave flume physical experiments to quantify wave attenuation and forces by porous structures

Research Scholar, University of Florida Jul 2022 - Aug 2023
Researched wave energy dissipation & turbulence using HPC-optimized CFD models.

Calculus/Physics Tutor, University of Padova, Italy Oct 2019 - Nov 2021
Tutored advanced mechanics, physics,, and calculus to first-year college students.

CONFERENCES

COP28, Dubai, UAE Dec 2023
Presenting the panel: Access to Supercomputing in Climate Research

State of The Reserve, GTM Reserve, Ponte Vedra, FL Feb 2025
Presenting: Delft3D numerical model to contain Nitrogen accumulation in estuaries

WolfDynamics OpenFOAM Workshop, Genova, Italy Jul 2023
Presenting the research: Quantifying wave energy dissipation by wavescreens

Hipergator Symposium, University of Florida Oct 2024
Lightning talk on CFD challenges in wave modeling

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*).