

# Stefano Biondi

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## EDUCATION

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

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

## CONFERENCES

<b>COP28,</b> Dubai, UAE Presenting the panel: Access to Supercomputing in Climate Research	Dec 2023
<b>State of The Reserve,</b> GTM Reserve, Ponte Vedra, FL Presenting: Delft3D numerical model to contain Nitrogen accumulation in estuaries	Feb 2025
<b>WolfDynamics OpenFOAM Workshop,</b> Genova, Italy Presenting the research: Quantifying wave energy dissipation by wavescreens	Jul 2023
<b>Hipergator Symposium,</b> 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*).