

Stefano Biondi

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Summary

Second-year Ph.D. student at the University of Florida, specializing in fluid dynamics and water quality with strong skills in coding and numerical modeling. Demonstrated expertise in data collection and analysis, with the ability to produce detailed reports and complete complex tasks effectively. Committed to advancing research capabilities and contributing to innovative solutions within the Industry.

Education

PhD in Coastal Engineering	Expected 05/2026
University of Florida - Gainesville, FL GPA: 4.00	
Master of Science in Hydraulics engineering	04/2023
University of Padova - Italy GPA: 3.75	
Bachelor of Science in Civil Engineering	10/2019
University of Padova - Italy	

Skills

Coding and software

- Python
- MATLAB
- C++
- Fortran
- Bash
- Microsoft Excel
- Latex
- SLURM

Engineering

- Hydraulics and Hydrodynamics
- Water Quality
- Structural engineering
- Geotechnical engineering
- Coastal engineering
- Numerical modeling
- CAD drawing

Experience

Field Work/Field Data Collector	09/2023 – 09/2024
GTM research reserve, St. Augustine, Florida	
One year of water quality, hydrodynamic and bathymetric data collection in the Guana Lake (Ponte Vedra, Florida).	
Research Scholar	07/2022 – 08/2023
University of Florida - Gainesville, USA	
<ul style="list-style-type: none">• Research in Fluid Dynamics, with focus on wave energy dissipation, turbulent flow and wave-structure interaction• Using HPC techniques to optimize high-resolution numerical models cost-effectiveness	
Mathematics and Physics Teacher	10/2019 – 11/2021
Serenamente School, Padova, Italy Teaching High school and first-year college students level Math and Physics, from basic level to advanced	
3D fused deposition modeler	03/2020 – 06/2020
PD3D Design, Padova, Italy	

Designing, 3D printing and supplying 3D printing of respiratory devices for emergencies during the COVID-19 pandemic

Languages

●**Italian:** Native / Bilingual

●**English:** Fluent

●**Spanish:** Intermediate

●**French:** basic

Projects and extracurricular

- Swimming national finals, 7 National Italian league finals (50m, 100m, and 200m backstroke and 200m freestyle), 50 backstroke and 4x100 medley relay regional record holder
- COP 28 Panelist, Dubai, UAE. Presenting the panel: Modeling Resilience: Potential of 'Supercomputing' Technology in Climate Research and Global Access Challenges
- WolfDynamics Workshop, Genova, 07/23, Presenting the research: Quantifying wave energy dissipation by slotted wave screen with high-resolution numerical modeling
- Gator motor sports team, University of Florida, Aerodynamics team: design of the chassis of the Gator motorsports car
- Hipergator Symposium, Gainesville, Florida, 10/24, Presenting: Challenges in Computational Fluid Dynamics: wave modeling