Contact

Matheus Fagundes - mf99274@uga.edu - (706) 715-9483 - https://github.com/mf99274
Research/Teaching Assistant at Engineering dept. (UGA)

Education

Present–	University of Georgia, Athens, GA PhD in Engineering with emphasis in Environment and Water
2016–2018	University of Georgia, Athens, GA MSc in Marine Sciences
2012–2013	Memorial University/Marine Institute, St. John's, NL, Canada Visiting Undergraduate Student
2010–2016	Universidade Federal do Maranhao (Federal University of Maranhao), Sao Luis, MA, Brazil B.S. in Oceanography

Technical Skills

Programming:	Python, SQL, FORTRAN, LaTeX, R, Linux/Unix, bash and MATLAB
Operating Systems:	Windows, MAC OS X and Linux
Softwares:	Pandas, Pytorch and TensorFlow

Honors

August 2019-	**NSF Graduate Research Fellow**, Department of Engineering, Univ. of Georgia
August 2016–2018	**NSF Graduate Research Fellow**, Department of Marine Sciences, Univ. of Georgia
Sep 2012 – Dec 2013	**Scholarship Award by Brazil-Canada (CBIE)** Science Without Borders Program

Publications

Fagundes, M. *et al.* **Downscaling global ocean climate models improves estimates of exposure regimes in coastal environments**, Nature *Scientific Reports*,2020. https://www.nature.com/articles/s41598-020-71169-6

Omidvar, S.; Fagundes, M.; Woodson, C.B. **Modification of internal wave generation and energy conversion in the nearshore due to tide-tide and tide-wind interactions**, JGR Oceans (*in revision*).

Relevant Coursework

Advanced Fluid Mechanics, Transport and Mixing in Natural Flows, Computational Engineering, Climate and Mathematics, Data Mining(audited), Data Analysis for Geoscientists, Modeling Earth's Climate System, Applied Regression Analysis(audited), Deep Learning & Engineering Applications(auditing), SQL for Data Science (coursera - in progress), Google Cloud Big Data and Machine Learning Fundamentals (coursera - in progress), Process Data from Dirty to Clean (coursera - in progress)

Relevant Experiences

Big Climate Change data analysis using HPC.

2021 Data for Good Virtual Hackathon (JPMorgan Chase & Co)

OCEANHACKWEEK 2019 (University of Washington)

LINUX for High Performance Computing: an Introduction (National Laboratory of Scientific Computation (LNCC))

Leadership

Short courses in Engineering Data Science (Fall 2021)
President Board member
The main objective of these short courses is to bring PhD students from different labs in the Water and Envi-

ronment program in the Engineering dept together by giving the chance to the students the opportunity to give a 1 hour course related to their current project.

Savannah Engineering Academy (Every June)
Team member
Every June we teach aspiring engineering students how physics works in the water by giving them the chance to build their own ROV (Remotely Operated Vehicles) and test it out in a supervised water environment.

Languages Skills and Interests

Languages: Portuguese (native), English(fluent), French (basic), Spanish (basic).
Interests: Hiking, Fishkeeping, Volleyball coach, traveling, UGA club volleyball.