CONTACT

NAME: Matheus Fagundes

INSTITUTION: Department of Engineering, University of Georgia ADDRESS: 200 D. W. Brooks Drive, Athens, GA 30602

GITHUB https://github.com/mf99274

EMAIL: mf99274@uga.edu

WEBSITE: http://www.cobia.engr.uga.edu/

http://upwelling.stanford.edu/

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

2010-2016 Universidade Federal do Maranhao (Federal University of Maranhao),

Sao Luis, MA, Brazil B.S. in Oceanography

2012–2013 | Memorial University/Marine Institute, St. John's, NL, Canada

Visiting Undergraduate Student

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

Modeling exposure time of abalone population under present and future ocean acidifi-

cation conditions in an upwelling region.

Jan 2014 - Jun 2016 | Coastal Water Quality and Marine Sediment Program Scholarship

Award (title translated), Department of Oceanography and Limnology,

Federal Univ. of Maranhao

Modeling the sediment transport dynamics of Sao Marcos Bay - Sao Luis - Maranhao -

Brazil

Sep 2012 - Dec 2013 | Scholarship Award by Brazil-Canada (CBIE)

Science Without Borders Program

INTERNSHIPS

2014 - 2016 | Coastal Circulation on the Internal Continental Shelf of the Brazilian

Equatorial Margin using ROMS

Advisor: Dr. Audálio Rebelo Torres Junior

144 h | Scientific training to run the Regional Ocean Modeling System

(ROMS) and participation in seminars in physical oceanography and

meteorology fields

Advisor: Dr. Luciano Ponzi Pezzi

390 h | Modeling potential Energy in Internal Gravity Waves using python

Advisor: Dr. James R. Munroe

PUBLICATIONS

CONFERENCE PRESENTATIONS

 ${\it Mar}\ 14^{th}-18^{th}, \ {\it 2018} \quad \ {\it The}\ \ {\it Eventual}\ \ {\it Presence}\ \ {\it of}\ \ {\it Freshwater}\ \ \ {\it of}\ \ {\it Amazonas}\ \ {\it River}\ \ {\it Over}\ \ the\ \ {\it Continental}\ \ {\it Shelf}$

of the State of Maranhão - Brazil,

Torres Junior, A.R., Fagundes, M., da Silva Dias, F.J., de Castro, A.C.L., Santos,

E.D.V., Soares, R. A., Neta, R.N.F.C.

Oral Presentation at 14th International Conference of Computational Methods

in Science and Engineering - ICCMSE 2018

Feb. $11^{th} - 16^{th}$, 2018 Investigating hypoxia in a Climate Change scenario in a region of upwelling.

Fagundes, M., Omidvar, S., Woodson, C.B. Poster at 2018 Ocean Sciences Meeting

Feb. $11^{th}-16^{th}$, 2018 THE GENERATION OF INTERNAL WAVES BY VARIABLE WIND STRESS AND

TIDAL FLOW INTERACTIONS IN THE NEARSHORE.

Omidvar, S., Fagundes, M., Woodson, C.B.

Oral Presentation at 2018 Ocean Sciences Meeting

Oct $06^{th}-09^{th}$, 2015 Superficial Circulation on the Equatorial Atlantic in periods of extremes EL-NINO

and LA-NINA: Preliminary results of a Regional Model.

Fagundes, M., Campos, P.C., Parise, C.K., Pezzi, L.P., Junior, A.R.T., Sutil, U.A., Gouveia, M.B.

poster at XI OMARSAT (Symposium of waves, tides, oceanic engineering and

satellite oceanography (title translated))

Oct $25^{th} - 29^{th}$, 2014 Wave Tides propagation at Itapecuru's river basin: a study.

Soares, R., Fagundes, M., Torres, A.R.T., Quadros, E., Azevedo, J., Castro, A.C., Campos, G.,

poster at VI Brazilian Congress on Oceanography (title translated)

SHORT TERM COURSES

Aug $26^{th} - 30^{th}$, 2019 **OCEANHACKWEEK 2019**

University of Washington

Jan $19^{th} - 23^{th}$, 2015 LINUX for High Performance Computing: an Introduction

Hours: 7.5 h

National Laboratory of Scientific Computation (LNCC)

Jan $19^{th} - 23^{th}$, 2015 FORTRAN for Computational Modeling

Hours: 7.5 h

National Laboratory of Scientific Computation (LNCC)

COMPUTER SKILLS

Basic Knowledge: Neview, Cloud Computing, Machine Learning Intermediate Knowledge: CLIMATE DATA OPERATORS (CDO), FORTRAN, LATEX

Advanced Knowledge: R, LINUX/UNIX, bash, MATLAB

Proficient Knowledge: PYTHON

Numerical Model: Coupled-Ocean-Atmosphere-Wave-Sediment Transport

(COAWST) Modeling System

LANGUAGES

PORTUGUESE: Mothertongue
ENGLISH: Full Professional
FRENCH: Basic Knowledge

OTHERS

Practical Guide to build and set up COAWST in the Kerana Cluster, (title translated)

Author: M.S Ueslei Adriano Sutil. Contributed helping with Python codes.

REFERENCES

Upon request.