

Denise Fukai

Oceanographer, Data Scientist and Network Infrastructure Technician

Last update: September 13, 2022

Up-to-date version of CV is available at

https://denisefukai.github.io/curriculum_vitae

Climate science, air-sea interactions and all the physics behind oceanic processes are things that catch me the most. Focusing on machine learning applications, data analysis and eventually unravelling few mysteries of the ocean. Also interested in applied science.

Education and Training

2012/1 - 2019/2

B.S. in **Oceanography**

UFES - Federal University of Espirito Santo

Vitoria, Brazil

2014/2 - 2015/1

Undergraduate Exchange in **Oceanography**

UNSW - University of New South Wales

Sydney, Australia

2019/1 - present

M.S. in **Meteorology**

UFRJ - Federal University of Rio de Janeiro

Rio de Janeiro, Brazil

Projects, scholarships, courses and others

2012 - 2013

Young Talents in Science Program

UFES – Coordination for the Improvement of Higher Education (Capes) – Brazil

Project: Numerical Modelling Development using ADCIRC

Supervisor: Julio Tomaz Aquije Chacaltana

matlab

adcirc

coastal modelling

Feb/2014 - Jun/2015

Brazilian Scientific Mobility Program: Science without Borders

National Council for Research and Development (CNPq) – Brazil

Exchange scholarship: 6-months language course and a year of a graduate course at UNSW

english

Dec/2014 - Feb/2015

ARCCSS Summer Research Scholarship

Residence

 [Serra/ES - BR](#)

LinkedIn

 [denisefukai](#)

GitHub

 [denisefukai](#)

Email

 denise.fukai@gmail.com

Project: "Ocean-atmosphere interaction analysis through the first version of recharge oscillator model"
ARCCSS / IMAS – Australia
Supervisor: Eric Oliver, Neil Holbrook, Catia Domingues, James Risbey

ENSO mode variability

2016 - 2017

Oceanografia para Todos (Oceanography for Everyone)

Co-funder of an extension group to disseminate oceanography to the general public. The focus was on the translation of science and research projects through public communication. The project has now been implemented as a long term Extension Programme at University (UFES) by current members.

community outreach extension project

2017 - present

CAPES Beach Morphodynamic Response of the Southeast of Brazil to the Sea Level Rise and Extremes Meteo-oceanographic Events until 2100

Research Collaborator (Data Analyst Support)
Project: This 4 years project aims to understand the short and long term local impacts and projections for the southeast Brazilian coast due to climate change. The analysis focus on extreme wave events, sea level and hydrodynamical changes and combined coastal inundation processes.
CAPES project registration no: 88887.145855/2017.00

data science wave analysis climate projection coastal

Jul - Dec 2018

EGS Brasil Internship

EGS Survey Brasil – Survey solutions for marine projects
Activity: Meteoceanographic data processing (wave and current profilers & CTD; meteorological station data), and elaboration of technical reports

python wave analysis environmental monitoring report writing

14-21 Sep 2019

Bio-Optical Oceanography Course

CEBIMar | USP – São Sebastião
Fundamentals of marine optics, tools and applied instrumentation to quantify ocean properties, especially biological variables. Field planning, data collection, operation of instruments, processing and interpretation of collected data.

bio-optics instrumentation data acquisition data analysis

Publication, Posters & Presentations

EGUCHI et al., 2019

(Significant wave height clustering for the coast of Espírito Santo)

