

Igor Uchoa Farias

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Doctorate student at the Atmospheric and Oceanic Science Department of the University of Maryland. Master of Science in Physical Oceanography at the Oceanographic Institute of University of São Paulo (IO-USP) (2019). Current a Atmospheric and Oceanic Sciences Doctorate Student at University of Maryland (UMD). Experienced in Data Analysis (Python/Matlab), with a focus in hydrographic observational data and oceanic model outputs.

Education

Academic Qualifications.....

- **B.S. Oceanography** 2012 - 2016
Federal University of Ceará, Fortaleza, Brazil
- **Visiting Undergraduate** 2013 - 2014
University of Victoria, Victoria, Canada
- **M.Sc. Physical Oceanography** 2017 - 2019
Oceanographic Institute of University of São Paulo, São Paulo, Brazil
- **Doctorate Student** 2021-
University of Maryland, College Park, Maryland

Academic Projects.....

- **Master's Thesis - "Eddy-Induced Ekman Pumping in the Vitória-Trindade Region"**
Advisor: Prof. Ilson C. A. Silveira (University of São Paulo)
Co-advisor: Prof. Paulo H. R. Calil (Helmholtz-Zentrum Geesthatch)
- **Visiting Undergraduate Report: "Colour Remote Sensing on the Strait of Georgia"**
Advisor: Prof. Maycira Costa (University of Victoria)
- **Senior Thesis: "Algorithm Development to Estimate Turbidity Dispersion of the Fraser River (Canada) Using the Red Spectral Band of the AQUA/MODIS Satellite"**
Advisor: Prof. Geraldo Ferreira (Federal University of Ceará)
Co-advisor: Prof. Maycira Costa (University of Victoria)

Professional Experience

- **Petróleo Brasil (PETROBRAS) / University of São Paulo** **São Paulo, Brazil**
Position: Oceanographer, Coordinator: Prof. Ilson C. A. Silveira *Jul 2019 – Jul 2020*
Main Activities: Oceanographic and Meteorological data processing; Model outputs and reanalysis processing; Plotting and sketch illustration for Data Science; Scientific writing for reports, papers, and presentations.

- **Wise Up ESL School** **Fortaleza/São Paulo, Brazil**
Position: ESL Instructor *Jan 2015 – Jul 2017*
 Main Activities: English Immersion Teaching; Personal and Professional Development Teaching; Test Correction

Academic Experience

- **Graduate Assistant** **College Park, MD**
University of Maryland, College Park *Aug 2021 -*
 Advisor: Jacob Wenegrat
- **Oceanographic Cruise Coordinator Assistant** **São Paulo, Brazil**
University of São Paulo *7-21, Dez 2019*
 Coordinator: Prof. Ilson C. A. Silveira
- **Teaching Assistant** **São Paulo, Brazil**
University of São Paulo, Course: Dynamic Oceanography II *Jul 2018 – Dez 2018*
 Coordinator: Prof. Ilson C. A. Silveira
- **Teaching Assistant - Undergraduate** **Fortaleza, Brazil**
Federal University of Ceará, Course: Physical Oceanography II *Jul 2017 – Dez 2017*
 Coordinator: Prof. Ana Paula Krelling

Technical Skills

- **Programming Languages:** Familiar with: Python; MatLab.
- **Languages:** Fluent English and Portuguese; Basic Spanish and Chinese.
- **Oceanography:** Experienced with oceanographic instrumentation/observation (e.g, CTD, ADCP), satellite data analysis (e.g., scatterometry, altimetry, Visible-Bandwidth satellite), and model outputs (e.g., ROMS).

Achievements and Extra-curricular Activities

- Science Without Borders Scholarship -Sandwich Graduation - Funded by: Brazil Government.

Events

- **Workshop Alphas** **São Paulo, Brazil**
University of São Paulo, Poster *2019*
 Title: Thinny and Mode-Water Eddies Around the Vitória-Trindade Ridge
- **UMass IMS Research Symposium** **New Bedford, MA**
University of Massachusetts Dartmouth, Poster/Oral Presentation *2019*
 Title: Mesoscale Eddies in the Vitória-Trindade Ridge Region: Statistical Characterization from Satellite Altimetry
- **Mesoscale and Frontal-Scale Air-Sea Interactions Workshop** **Denver, CO**
US-CLIVAR, Poster *2023*
 Title: Submesoscale sea surface temperature variability as a sink of eddy energy in a coupled regional model
- **Physics of the Ocean Summer School** **Bad Honnef, Germany**
German Physical Society (DPG), Poster *2023*
 Title: Submesoscale sea surface temperature variability as a sink of eddy energy in a coupled regional model

- **Atmosphere-ocean coupling at (sub)mesoscales** **Leiden, Netherlands**
Lorentz Center, Poster 2023
Title: Submesoscale sea surface temperature variability as a sink of eddy energy in a coupled regional model

Publications

Book Chapter.....

Water Masses and Oceanic Circulation of the Brazilian Continental Margin and Adjacent Abyssal Plain. Brazilian Marine Biodiversity

Year of Publishing: 2020;
Author: Silveira, Ilson C. A.;
Co-authors: Napolitano, Dante C.; **Farias, Igor U.**;
Springer International Publishing

Paper.....

Seasonal variability of ichthyoneuston assemblage on the continental shelf and slope of the South-west Atlantic Ocean, Brazil (20°-23°S)

Year of Publishing: 2019;
Author: Bonecker, Ana C. T.;
Co-authors: Katsuragawa, Mário.; Castro, Márcia S.; Namiki, Claudia; Zani' Teixeira, Maria L.; **Farias, Igor U.**; Silveira, Ilson C. A.;
Journal: Journal of Applied Ichthyology

The Brazil Current mesoscale eddies: Altimetry-based characterization and tracking

Year of Publishing: 2023;
Author: Uchoa, I
Co-authors: Simoes-Sousa, I. T., and Silveira, I. C.
Journal: Deep Sea Research Part I: Oceanographic Research Papers