

Igor Uchôa Farias

College Park, MD

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Education

Academic Qualifications

- **B.S. Oceanography** **2012 - 2016**
Federal University of Ceará, Fortaleza, Brazil GPA 8.2/10
- **M.Sc. Physical Oceanography** **2017 - 2019**
Oceanographic Institute of University of São Paulo, São Paulo, Brazil GPA A/A
- **Ph.D. Atmospheric and Oceanic Science** **2021 - Present**
University of Maryland, College Park, MD Cumulative GPA 3.6/4

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 Geesthacht)
Committee: Prof. Wilton Zumpichiatti (State University of Rio de Janeiro) & Prof. Dennis McGillicuddy (Woods Hole Oceanographic Institution)
- **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.

Academic Experience

- **Graduate Assistant** **College Park, MD**
University of Maryland, Advisor: Dr. Jacob Wenegrat Sep 2021 – Present
Main Activities: Research and academic development.
- **Oceanographic Cruise Coordinator Assistant** **São Paulo, Brazil**
University of São Paulo, Coordinator: Prof. Ilson C. A. Silveira Dez 2019

Main Activities: Instrumentation handling and data assessment; Real-time Data Plotting and Processing; Cruise Adaptive Planning.

Teaching Assistant

- *University of São Paulo, Course: Dynamic Oceanography II*
Coordinator: Prof. Ilson C. A. Silveira

São Paulo, Brazil

Jul 2018 – Dez 2018

Main Activities: Student Frequency; Quiz Correction; Review and Support Classes.

Technical Skills

- **Programming Languages:** Python; MatLab.
- **Languages:** Fluent English and Portuguese; Basic Spanish.
- **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, Mercator Reanalysis).

Achievements and Extra-curricular Activities

- Science Without Borders Scholarship -Sandwich Graduation - Funded by: Brazil Government.
- Best Presentation (Runner-Upper) - University of Massachusetts IMS Research Symposium.

Publications

Scientific Papers.....

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

Year of Publishing: 2022;

Author: **Uchoa, Igor**;

Co-authors: Simoes-Sousa, Iury T.;Silveira, Ilson C. A.

Journal: Deep Sea Research Part I: Oceanographic Research Papers

Seasonal variability of ichthyoneuston assemblage on the continental shelf and slope of the Southwest 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

Other 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

