

Igor Uchoa

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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.....

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

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)

Publications

Papers.....

Unraveling the Impacts of Submesoscale Thermal and Current Feedbacks on the Low Level Winds and Oceanic Submesoscale Currents

Year of Publishing: 2024;

First author: Lionel Renault

Co-authors: Marcela Contreras, Patrick Marchesiello, Carlos Conejero, **Igor Uchoa**, Jacob Wenegrat

Journal: Journal of Physical Oceanography

The Air-Sea Interaction (ASI) submesoscale: physics and impact

Year of Publishing: 2023;

First author: Louise Nuijens

Co-authors: Jacob Wenegrat, Paco Lopez Dekker, Claudia Pasquero, **and collaborators.**

White-paper from the Lorentz-Center Workshop in Leiden, the Netherlands, Sept 2023

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

Year of Publishing: 2023;

First author: **Igor Uchoa Farias,**

Co-authors: Iury Simoes-Sousa, Ilson Silveira.

Journal: Deep Sea Research Part I: Oceanographic Research Papers

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;

First author: Bonecker, Ana C. T.;

Co-authors: Mário Katsuragawa; Márcia Castro; Claudia Namiki; Maria Zani'Teixeira; **Igor Uchoa Farias;** Ilson Silveira.

Journal: Journal of Applied Ichthyology

Book Chapter.....

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

Year of Publishing: 2020;

Author: Ilson Silveira,

Co-authors: Dante Napolitano, **Igor Uchoa Farias.**

Springer International Publishing

Academic Experience

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

Professional Experience

- **Teacher Assistant** **Remote**
Climatemark - Neuromark Academy
Coordinator: Nick Halper *Jul 2024*
- **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

Extra-curricular Activities

- **2024-Present** Letters for a Pre-scientist (LPS) - Volunteer
- **2024-Present** Communications for Science Policy Group - University of Maryland, College Park
- **2023-Present** Student Seminar Co-organizer - University of Maryland, College Park

Achievements

- **2024** - Green Fund Scholarship (Green Fund Endowed Graduate Fellowships in Earth Sciences and Climate Change) - University of Maryland, College Park
- **2024** -Group Achievement Award Submesoscale Ocean Dynamics Experiment (S-MODE) -National Aeronautics and Space Administration
- **2021** - College of Computer, Mathematical, and Natural Sciences Deans Fellowship - University of Maryland, College Park
- **2013** - Science Without Borders Scholarship - Brazil Government.

Talks

- **Title: Observed air-sea thermal feedback at submesoscale fronts** **Invited Talk**
American Geophysical Union Annual Meeting, Washington DC *2024*

Events

- **Annual meeting** **Washington, DC**
American Geophysical Union, Invited Talk *2024*
Title: Observed air-sea thermal feedback at submesoscale fronts
- **Ocean Sciences Meeting** **New Orleans**
American Geophysical Union, Poster *2024*
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

- **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
- **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
- **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
- **Workshop Alphas** **São Paulo, Brazil**
University of São Paulo, Poster 2019
Title: Thinny and Mode-Water Eddies Around the Vitória-Trindade Ridge