

Igor Uchoa

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<http://igoruchoa.github.io>

Doctorate student at the Atmospheric and Oceanic Science Department of the University of Maryland. Master of Science in Physical Oceanography at the Oceanographic Institute at the University of São Paulo, Brazil. Currently, Doctorate Student at the University of Maryland (UMD) at the Atmospheric and Oceanic Science Department. Experienced in data analysis of oceanographic observational data and numerical simulations. Interested in ...

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
- **B.S. Oceanography** **2012 - 2016**
Federal University of Ceará, Fortaleza, Brazil

Research

- **Graduate Assistant** **College Park, MD**
University of Maryland, College Park
Advisor: Jacob Wenegrat
Aug 2021 - Present
- **Oceanographic Cruise Coordinator Assistant** **São Paulo, Brazil**
University of São Paulo
Coordinator: Prof. Ilson C. A. Silveira
7-21, Dez 2019
- **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.

Teaching

- **Teacher Assistant** **Remote**
Climatematic - Neuromatch Academy
Coordinator: Nick Halper
Jul 2024
- **Teaching Assistant** **São Paulo, Brazil**
University of São Paulo, Course: Dynamic Oceanography II
Coordinator: Prof. Ilson C. A. Silveira
Jul 2018 – Dez 2018

○ **Wise Up ESL School**
Position: ESL Instructor

Fortaleza/São Paulo, Brazil
Jan 2015 – Jul 2017

Publications

Papers.....

- **Uchoa, Igor**, J. O. Wenegrat, and L. Renault. Sink of eddy energy by submesoscale sea surface temperature variability in a coupled regional model. 2024
- J. T. Farrar and **et al.** S-MODE: The sub-mesoscale ocean dynamics experiment. *Bulletin of the American Meteorological Society*, 2025
- L. Renault, M. Contreras, P. Marchesiello, C. Conejero, **I. Uchoa**, and J. Wenegrat. Unraveling the impacts of submesoscale thermal and current feedbacks on the low-level winds and oceanic submesoscale currents. *Journal of Physical Oceanography*, 54(12):2463–2486, 2024
- L. Nuijens and **et al.** The Air-Sea Interaction (ASI) submesoscale: Physics and impact. In *Lorentz Workshop*, 2024
- F. Santos, L. Araújo, **I. Uchoa**, R. Lourenço, S. Taniguchi, C. Martins, R. Nagai, I. Wainer, M. Mahiques, R. Figueira, and M. Bicego. High-resolution UK'37 sea surface temperature reconstruction in the southwestern Atlantic Ocean during the Holocene. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 654:112452, 2024
- **I. Uchoa**, I. T. Simoes-Sousa, and I. C. da Silveira. The Brazil Current mesoscale eddies: Altimetry-based characterization and tracking. *Deep Sea Research Part I: Oceanographic Research Papers*, 192:103947, 2023
- A. C. T. Bonecker, M. Katsuragawa, M. S. de Castro, C. Namiki, M. de Lourdes Zani-Teixeira, **I. Uchoa Farias**, and I. C. A. d. Silveira. Seasonal variability of ichthyoneuston assemblage on the continental shelf and slope of the Southwest Atlantic Ocean, Brazil (20–23 S). *Journal of applied ichthyology*, 35(3):655–671, 2019

Book Chapter.....

- I. C. A. da Silveira, D. C. Napolitano, and **Farias Uchoa, I.** *Water Masses and Oceanic Circulation of the Brazilian Continental Margin and Adjacent Abyssal Plain*, pages 7–36. Springer International Publishing, Cham, 2020

Advising

- **Co-advisor**
Megan Brown - Undergraduate Research Project 2024

Invited Talk

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

Service and Leadership

- **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 - Atmospheric and Oceanic Science Department, University of Maryland - College Park

Additional Training

- **2022-2023** - Life Skills for Young Scientists, Planetary Science Institute

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.