

Postdoctoral Fellow – Woods Hole Oceanographic Institution  
Physical Oceanography Department

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## Education

- 2019 – 2023    Ph.D., Computational Sciences, **University of Massachusetts Dartmouth**
- 2015 – 2017    M.Sc., Physical Oceanography, **University of São Paulo, Brazil**
- 2011 – 2014    B.Sc., Interdisciplinary Oceanography, **Federal University of Ceará, Brazil**

## Professional Experience

- 2023 – . . . .    **Postdoctoral Investigator**, Department of Physical Oceanography, **Woods Hole Oceanographic Institution (WHOI)**.  
Funding: Institutional (*Fellowship* by Vision Funds)
- 2020 – 2023    **Graduate Research Assistant**, College of Engineering, **University of Massachusetts Dartmouth (UMassD)**.  
Funding: ONR and NSF
- 2019 (Jan - Jul)    **Physical Oceanographer**, Oceanographic Institute, **University of São Paulo (USP)**.  
Responsibilities: Scientific and technical support in physical oceanography data analysis, mentorship leading to publication of scientific articles.
- Data Scientist in Artificial Intelligence, InsilicAll**.  
Responsibilities: Data processing for neural networks, interactive visualization of machine learning model results.
- 2017 – 2019    **Data Scientist in Artificial Intelligence and Backend Developer, Alttox - Alternative Toxicology**.  
Responsibilities: Developed first Brazilian online platform for *in-silico* toxicological tests, machine learning model development, co-authorship in cancer research paper.








## Selected Academic Honors

- 2023    **Postdoctoral Fellowship**, *Vision Funds*, Woods Hole Oceanographic Institution.
- 2022    **Geophysical Fluid Dynamics Fellowship**, Woods Hole Oceanographic Institution.
- 2019    **First-Year Doctoral Fellowship**, University of Massachusetts.
- 2015    **Master's Research Fellowship**, São Paulo Research Foundation (FAPESP).

## Additional Training






- 2023    **Certified Programming Instructor**, The Carpentries.  
Mode: Virtual (20 hours).  
Skills: Teaching in programming and data science, engagement in active pedagogical practices.

## Additional Training (continued)

- 2022  **Life Skills for Young Scientists**, Planetary Science Institute.  
Instructor: Dr. Jonathan Lilly, Mode: Virtual (12 months).  
Skills: Communication, conflict management, teamwork, resilience, and well-being in academia.
- 2022  **Data-driven GFD, Geophysical Fluid Dynamics Fellowship**, WHOI.  
Instructors: Profs. Laure Zanna and Peter Schmid  
Mode: In-person (400 hours).  
Skills: Advanced methods in spatio-temporal analysis and decomposition, AI in fluid dynamics and development of a scientific project.
-  **Openscapes Champions Cohort**, NASA.  
Mode: Virtual (2 months).  
Skills: Cloud computing in Earth science research, open science principles.
- 2021  **OceanHackWeek, Data Science + Oceanography**, Bigelow Laboratory for Ocean Sciences and University of Washington.  
Mode: In-person - Boothbay, ME, USA (40 hours).  
Skills: Multidimensional data analysis, version control, AI in oceanography.
- 2018  **Nanodegree in Machine Learning Engineering**, Udacity.  
Mode: Virtual (6 months).  
Focus: Linear regression, decision trees, SVM, neural networks, reinforcement learning.
- 2016  **Lagrangian Perspective of Ocean Circulation**, Federal University of Santa Catarina.  
Instructor: Prof. Albert Kirwan  
Mode: In-person - Florianópolis, Brazil (20 hours).
- 2013  **Integrated Teaching with Digital Technologies**, UFC Virtual - Federal University of Ceará.  
Mode: In-person - Fortaleza, CE (64 hours).

## Educational Activities



### Given Short Courses and Tutorials

- 2024 (40h)  **Geophysical Flows Workshop**, IIT Madras.  
Theory and simulation of Ocean Gravity Currents and the effect of Earth's rotation.
- 2023 (1h)  **S-MODE Meeting**, NASA Ames Center.  
Multidimensional PO.DAAC data access, processing and visualization
- 2023 (2h)  **Summer School on Marine Heatwave**, ICTP / CLIVAR.  
Version control and cloud computing in Physical Oceanography
- 2021 (10h)  **Unravelling Oceanography with Python**, Federal University of Ceará.
- 2016 (8h)  **Python for Physical Oceanography**, University of São Paulo.

### Teaching Assistant





- 2014.1 (190h)  **Ocean Dynamics II**, Federal University of Ceará.
- 2014.2 (190h)  **Oceanographic Data Analysis**, Federal University of Ceará.

### Advising



- 2023 – . . . .  **Rebeca Crisóstomo Melo**, Undergraduate in Oceanography, Federal University of Ceará. Project: Parnaíba River plume variability from satellite data (*Main advisor*).
- 2021 – 2023  **Caio Erick Braga Costa**, Masters in Tropical Marine Sciences, Federal University of Ceará. Project: Surface gravity waves and numerical reanalyses validation (*Co-advisor*).

## Educational Activities (continued)









### Mentoring

- 2023     **Rafael Couto Martins**, Undergraduate in Physical Oceanography, University of São Paulo (USP). Project: Modeling the Brazil Current recirculation.  
Main advisor: Amit Tandon.
- 2020 – 2023     **Alan Andonian**, Undergraduate/Masters, University of Massachusetts Dartmouth (UMassD). Projects: Taylor columns and vortex shedding simulations.  
Main advisor: Amit Tandon.
- 2019 – 2022     **Igor Uchôa Farias**, Masters in Physical Oceanography, University of São Paulo. Project: Altimetry-based characterization of Brazil Current mesoscale eddies.  
Main advisor: Ilson Silveira.
- 2019 – 2021     **Caique Dias Luko**, Undergraduate in Oceanography, University of São Paulo (USP). Project: Revisiting the Atlantic South Equatorial Current.  
Main advisor: Ilson Silveira.

### Academic Outreach




- 2012 – 2014     **Tutorial Education Program (PET)**, Federal University of Ceará. Institutional Scholarship. Activities: Educational projects, thematic weeks, outreach and training focused on reducing dropout rates from vulnerable students.
- 2012 – 2013     **Exchange Student Support Program (PAI)**, Federal University of Ceará. Volunteer. Activities: Assisting international students, focused support for low-income students.

## Ad Hoc Reviewer for Scientific Journals

-  *Journal of Open Source Software*
-  *Journal of Physical Oceanography*
-  *Frontiers in Marine Science*
-  *Ocean and Coastal Research*
-  *Geophysical Research Letters*
-  *Remote Sensing*
-  *Journal of Atmospheric and Oceanic Technology*
-  *Journal of Geophysical Research: Oceans*

## Research

### Grants as Single Beneficiary

- 2023-2024     **Vision Funds Postdoctoral Fellowship**, Woods Hole Oceanographic Institution (WHOI).  
Funds: US\$ 202 thousand.
- 2019-2020     **First-year Doctoral Fellowship**, University of Massachusetts Dartmouth (UMassD).
- 2015-2017     **Master's Research Fellowship**, University of São Paulo (USP).  
Title: Dynamics of the multiple retroreflections and recirculations of the North Brazil Undercurrent.  
Funding Agency: São Paulo Research Foundation (FAPESP)

## Research (continued)

### Participation in Research Projects

- 2023
- **Sub-Mesoscale Ocean Dynamics Experiment (S-MODE).**  
Role: Collaborator, Funding Agency: NASA, PI: Tom Farrar (WHOI).
  - **Surface Water Ocean Topography (SWOT) Science Team.**  
Role: Collaborator, Funding Agency: NASA, PI: Tom Farrar (WHOI).
  - **Ecological Connectivity and Material Dispersion on the Continental Shelf of Ceará.**  
Role: Collaborator, Funding Agency: FUNCAP (Brazil), PI: Carlos Eduardo Peres Teixeira (UFC).
- 2020 – 2023
- **Understanding the Ocean-Atmosphere Coupling in the Northern Indian Ocean.**  
Role: Research Assistant, Funding Agency: ONR, PI: Amit Tandon.
  - **The Role of Sub-mesoscale Eddies and Fronts in Near-inertial Waves Generation.**  
Role: Research Assistant, Funding Agency: ONR, PI: Prof. Amit Tandon.
  - **Sub-mesoscale and Mesoscale Interactions Study (SubMIST).**  
Role: Research Assistant, Funding Agency: ONR, Program: Marine Underwater Science and Technology (MUST), PI: Amit Tandon.
- 2019
- **Network for Studies of the Brazil Current on the Southeast-South Continental Margin (REMARSUL).**  
Role: Physical Oceanographer, Funding Agency: CAPES (Brazil), PI: Ilson Silveira.
- 2017 – 2019
- **Virtual InSilicoTox: Real-time in silico toxicological screening platform.**  
Funding Agency: São Paulo Research Foundation (FAPESP).
- 2015 – 2017
- **Hydrodynamic Characterization of the Sergipe and Alagoas Basin (MARSEAL).**  
Role: Physical Oceanographer, Funding Agency: Partnership between USP and Petrobras, PI: Ilson Silveira.

## Publications

### Journal Articles

- 1 C. Carvalho, I. T. **Simoes-Sousa**, L. P. Santos, *et al.*, “Surfing the currents: The longest distance traveled by a released West Indian manatee (*Trichechus manatus*) and the implications for conservation,” *Journal of the Marine Biological Association of the United Kingdom*, 2023, Under review., ISSN: 1469-7769.
- 2 C. B. Rocha and I. T. **Simoes-Sousa**, “Compact mesoscale eddies in the South Brazil Bight,” *Remote Sensing*, vol. 14, no. 22, p. 5781, 2022. [DOI: 10.3390/rs14225781](https://doi.org/10.3390/rs14225781).
- 3 I. C. Silveira, F. Pereira, G. R. Flierl, *et al.*, “The Brazil Current quasi-stationary unstable meanders at 22°S–23°S,” *Progress in Oceanography*, p. 102 925, 2022, ISSN: 0079-6611. [DOI: https://doi.org/10.1016/j.pocean.2022.102925](https://doi.org/10.1016/j.pocean.2022.102925).
- 4 I. T. **Simoes-Sousa**, A. Tandon, J. Buckley, D. Sengupta, E. Shroyer, and S. P. de Szoeke, “Atmospheric cold pools in the Bay of Bengal,” *Journal of the Atmospheric Sciences*, 2022. [DOI: 10.1175/JAS-D-22-0041.1](https://doi.org/10.1175/JAS-D-22-0041.1).
- 5 I. T. **Simoes-Sousa**, A. Tandon, F. Pereira, C. Z. Lazaneo, and A. Mahadevan, “Mixed layer eddies supply nutrients to enhance the spring phytoplankton bloom,” *Frontiers in Marine Science*, vol. 9, 2022, ISSN: 2296-7745. [DOI: 10.3389/fmars.2022.825027](https://doi.org/10.3389/fmars.2022.825027).
- 6 I. Uchoa, I. T. **Simoes-Sousa**, and I. C. Silveira, “The Brazil Current mesoscale eddies: Altimetry-based characterization and tracking,” *Deep Sea Research Part I: Oceanographic Research Papers*, p. 103 947, 2022, ISSN: 0967-0637. [DOI: 10.1016/j.dsr.2022.103947](https://doi.org/10.1016/j.dsr.2022.103947).











- 7 C. Luko, I. Silveira, I. T. **Simoes-Sousa**, J. Araujo, and A. Tandon, "Revisiting the Atlantic South Equatorial Current," *Journal of Geophysical Research: Oceans*, e2021JC017387, 2021. [DOI: 10.1029/2021JC017387](https://doi.org/10.1029/2021JC017387).
- 8 D. C. Napolitano, C. B. Rocha, I. C. da Silveira, I. T. **Simoes-Sousa**, and G. R. Flierl, "Can the Intermediate Western Boundary Current recirculation trigger the Vitória Eddy formation?" *Ocean Dynamics*, vol. 71, no. 3, pp. 281–292, 2021. [DOI: 10.1007/s10236-020-01437-6](https://doi.org/10.1007/s10236-020-01437-6).
- 9 P. S. Polito, O. T. Sato, D. C. Napolitano, I. T. **Simoes-Sousa**, H. Almeida, and F. R. Lapolli, "Insights on the non-linear solution of Munk's ocean circulation theory from a rotating tank experiment," *Ocean and Coastal Research*, vol. 69, 2021. [DOI: 10.1590/2675-2824069.20-011psp](https://doi.org/10.1590/2675-2824069.20-011psp).
- 10 E. Shroyer, A. Tandon, D. Sengupta, *et al.*, "Bay of Bengal intraseasonal oscillations and the 2018 monsoon onset," *Bulletin of the American Meteorological Society*, pp. 1–44, 2021. [DOI: 10.1175/BAMS-D-20-0113.1](https://doi.org/10.1175/BAMS-D-20-0113.1).
- 11 I. T. **Simoes-Sousa**, I. C. A. Silveira, A. Tandon, G. R. Flierl, C. H. Ribeiro, and R. P. Martins, "The Barreirinhas Eddies: Stable energetic anticyclones in the near-equatorial South Atlantic," *Frontiers in Marine Science*, vol. 8, p. 28, 2021. [DOI: 10.3389/fmars.2021.617011](https://doi.org/10.3389/fmars.2021.617011).
- 12 J. R. Santin, G. F. da Silva, M. V. Pastor, *et al.*, "Biological and toxicological evaluation of n-(4methyl-phenyl)-4-methylphthalimide on bone cancer in mice," *Anti-Cancer Agents in Medicinal Chemistry (Formerly Current Medicinal Chemistry-Anti-Cancer Agents)*, vol. 19, no. 5, pp. 667–676, 2019. [DOI: 10.2174/1871520619666190207130732](https://doi.org/10.2174/1871520619666190207130732).
- 13 I. Silveira, I. T. **Simoes-Sousa**, D. Napolitano, H. M. R. Almeida, P. Baldasso, and W. Watanabe, "As correntes oceânicas na Bacia Sergipe-Alagoas," *Revista Marseal: Edição Águas Profundas SE/AL*, vol. 2, pp. 36–39, 2018, Ciências da Terra e Meio Ambiente, Geologia e Geomorfologia., ISSN: 2596-0547. [URL: https://www.livraria.ufs.br/produto/revista-marseal-edicao-aguas-profundas-seal-volume-2/](https://www.livraria.ufs.br/produto/revista-marseal-edicao-aguas-profundas-seal-volume-2/).

## Proceedings



- 1 J. T. Farrar, E. D'Asaro, E. Rodriguez, *et al.*, "Ocean surface current measurements in the sub-mesoscale ocean dynamics experiment," in *Proceedings of the 2024 IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*, Under review, 2024.
- 2 I. T. **Simoes-Sousa**, "Stochasticity of turbulence closures," in *Proceedings Volumes of the GFD WHOI*, In press., Woods Hole, MA: Woods Hole Oceanographic Institution, 2022. [URL: https://gfd.whoi.edu/gfd-publications/gfd-proceedings-volumes/](https://gfd.whoi.edu/gfd-publications/gfd-proceedings-volumes/).

## Contributions to Open-Source Software

- 1 T. Biló and I. T. **Simoes-Sousa**, *vector\_fields*, Python functions developed for handling vector fields. [URL: https://github.com/iuryt/vector\\_fields](https://github.com/iuryt/vector_fields).
- 2 K. Drushka, D. Balwada, D. LaScala-Gruenewald, I. T. **Simoes-Sousa**, and C. Cai, *ohw21-proj-model-subsampling*, OceanHackWeek21 project to subsample high-resolution model outputs for seagliders, ships, or other in situ platforms. [URL: https://github.com/oceanhackweek/ohw21-proj-model-subsampling](https://github.com/oceanhackweek/ohw21-proj-model-subsampling).
- 3 A. Ramadhan, G. L. Wagner, N. C. Constantinou, *et al.*, *CliMa/Oceananigans.jl: Vo.88.0*, version vo.88.0, Numerical model in Julia for oceanic fluid dynamics on CPUs and GPUs. Contributed to the source code on different pull requests. [DOI: 10.5281/zenodo.4019271](https://doi.org/10.5281/zenodo.4019271).
- 4 I. T. **Simoes-Sousa**, *Bioceananigans.jl*, Modules for estimating depth of mixing layer, phytoplankton shading, and calculating light-limited growth. [URL: https://github.com/iuryt/Bioceananigans.jl](https://github.com/iuryt/Bioceananigans.jl).
- 5 I. T. **Simoes-Sousa**, *env\_coringa*, Specialized Python environment for Earth sciences, focusing on analysis of oceanographic data. [URL: https://github.com/iuryt/env\\_coringa](https://github.com/iuryt/env_coringa).

- 6 I. T. **Simoës-Sousa**, *gaussian\_bump*, MITgcm simulation of rotating flow over a Gaussian bump.  URL: [https://github.com/iuryt/gaussian\\_bump](https://github.com/iuryt/gaussian_bump).
- 7 I. T. **Simoës-Sousa**, *ocean\_gyre\_tank*, MITgcm simulation for General Ocean Circulation in a rotating tank, based on the paper “Insights of the non-linear solution of Munk’s ocean circulation theory from a rotating tank experiment”.  URL: [https://github.com/iuryt/ocean\\_gyre\\_tank](https://github.com/iuryt/ocean_gyre_tank).
- 8 I. T. **Simoës-Sousa**, *Panthalassan*, Template tutorials for teaching Data Science in Oceanography using Python, GitHub, and Google Colab.  URL: <https://github.com/iuryt/Panthalassan>.
- 9 I. T. **Simoës-Sousa**, *tico\_peixeboi*, Contains data analysis and codes related to the paper “Surfing the currents: The longest distance traveled by a released West Indian manatee (*Trichechus manatus*) and the implications for conservation”.  URL: [https://github.com/iuryt/tico\\_peixeboi](https://github.com/iuryt/tico_peixeboi).
- 10 I. T. **Simoës-Sousa**, V. McDonald, and A. Wineteer, *2023-SMODE-Open-Data-Workshop*, Tutorial on access, processing, and combined multi-dimensional analysis of different datasets from the S-MODE project.  URL: <https://github.com/podaac/2023-SMODE-Open-Data-Workshop>.
- 11 I. T. **Simoës-Sousa**, D. C. Napolitano, F. Vilela-Silva, L. Almeida, and O. Wang, *OceanLab*, Python script package for Oceanography with tools for optimal interpolation, estimation of vertical pressure modes, and empirical orthogonal functions.  URL: <https://github.com/OceanLabPy/OceanLab>.
- 12 I. T. **Simoës-Sousa**, *github.com/iuryt/NorthAtlanticBloom*, version v1.0.0, Code for simulations and data analysis related to the paper “Mixed layer eddies supply nutrients to enhance the spring phytoplankton bloom”, Apr. 2024.  DOI: 10.5281/zenodo.10980522.
- 13 I. T. **Simoës-Sousa** and K. J. Burns, *github.com/iuryt/stochastic\_closures*, version v1.0.0, WHOI GFD summer school project repository exploring the stochasticity of turbulent closures, Apr. 2024.  DOI: 10.5281/zenodo.10980584.
- 14 Various Contributors, *matplotlib*, Comprehensive library for creating visualizations in Python. Contributed to the documentation with an example for 3D plotting.  URL: <https://github.com/matplotlib/matplotlib>.
- 15 Various Contributors, *OceanBioME.jl*, Modeling environment for coupled interactions between ocean physics and biogeochemistry. Contributed with a pull request and overall as a reviewer.  URL: <https://github.com/OceanBioME/OceanBioME.jl>.

## Gray Literature

- 1 I. T. **Simoës-Sousa**, *Swirls and gusts: Computational insights into ocean vortices and atmospheric cold pools*, Ph.D. Thesis (Computational Science and Engineering), North Dartmouth, United States, 2023.
- 2 I. T. **Simoës-Sousa**, *Recurrent anticyclone formation and shedding within the barreirinhas bight (ne-brazil)*, Master’s Dissertation in Oceanografia Física, doi:10.11606/D.21.2018.tde-27032018-151700, São Paulo, Brazil, 2017.  URL: <https://www.teses.usp.br/teses/disponiveis/21/21135/tde-27032018-151700/> (visited on 12/29/2023).
- 3 I. T. **Simoës-Sousa**, *Sistema subcorrente norte do brasil através da aplicação do método dinâmico referenciado*, Portuguese, Bachelor’s Thesis (Oceanography), 48 f., Fortaleza, Brazil, 2014.  URL: <https://repositorio.ufc.br/handle/riufc/33651> (visited on 12/29/2023).










## Selected Presentations and Conferences

- 2024
- **American Geophysical Union Annual Meeting.**  
Location: Washington, DC. Role: Session Convener. Status: Submitted.  
Session title: “Explaining and Predicting Mid-latitude Weather, Climate and Ocean Variability and Change Through Air-Sea Interactions and Teleconnections.”
  - **Gordon Research Conference in Ocean Mixing.**  
Location: Holyoke, Massachusetts. Role: Poster presentation. Status: Submitted.  
Title: “Rapid Vertical Transport of Wind-Driven Inertial Signals by Near-Buoyancy Waves.”
  - **IIT Madras Geophysical Flows Workshop: Innovations in Oceanography.**  
Location: IIT Madras, Chennai, India. Role: Lecturer.
  - **Ocean Sciences Meeting.**  
Location: New Orleans - LA. Role: Oral Presentation, Title: “A Global Unified Vortex-Profile Dataset and its Implications for Internal-Wave Mixing,” Status: Accepted.
- 2023
- **S-MODE Meeting.**  
Location: NASA Ames Center, Mountain View, CA. Role: Oral Presentation, Title: “S-MODE and SWOT.”
  - **XV OMARSAT.**  
Location: Cabo Frio - Brazil. Role: Oral Presentation, Title: “At the Forefront of Oceanic Sub-mesoscale Observations: A comparative study of NASA’s S-MODE project and SWOT.”
  - **IEEE High Performance Extreme Computing Virtual Conference.**  
Location: Virtual. Role: Participant.
  - **ICTP/CLIVAR Summer School on Marine Heatwave.**  
Location: Virtual. Role: Invited Lecturer, Title: “Version Control in Data Science: GitHub and Google Colab.”
  - **Gordon Research Conference and Seminar in Coastal Ocean Dynamics.**  
Location: Bryant University - RI. Role: Oral Presentation and Poster, Title: “Did Tico surf or swim? A case study of a manatee released in Brazil that ended up in Venezuela.”
  - **ONR Code 32 Graduate Student and Post-Doc Workshop.**  
Location: Arlington, VA. Role: Participant.
  - **Mesoscale and Frontal-Scale Air-Sea Interactions Workshop.**  
Location: CLIVAR, Boulder, CO. Role: Poster Presentation, Title: “Atmospheric cold pools in the Bay of Bengal.”
- 2022
- **High Performance Computing Day.**  
Location: University of Massachusetts Lowell. Role: Participant.
  - **FilaChange.**  
Location: Brown University, RI. Role: Oral Presentation, Title: “Mixed layer eddies supply nutrients to enhance spring phytoplankton blooms.”
  - **IEEE High Performance Extreme Computing Virtual Conference.**  
Location: Virtual. Role: Participant.
  - **Ocean Sciences Meeting.**  
Location: Virtual. Role: Poster Presentation, Title: “Atmospheric cold pools in the Bay of Bengal.”
  - **Gordon Research Conference and Seminar in Ocean Mixing.**  
Location: Holyoke College, MA. Role: Poster Presentation, Title: “The impact of submesoscale fronts on the near-inertial wave generation.”
  - **Intercampus Marine Science Symposium.**  
Location: University of Massachusetts Dartmouth. Role: Plenary Lecture, Title: “Atmospheric cold pools in the Bay of Bengal.”

## Selected Presentations and Conferences (continued)

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- 2021  **Colóquio Belmiro de Castro.**  
Location: Virtual, University of São Paulo. Role: Invited Lecture, Title: “How does submesoscale intensify phytoplankton blooms?”
- 2020  **Ocean Sciences Meeting.**  
Location: San Diego, CA. Role: Poster Presentation, Title: “The Barreirinhas Eddies conundrum: Why are these super anticyclones at low latitudes so long-lived?”
-  **SciPy.**  
Location: Virtual. Role: Participant.
- 2018  **2<sup>nd</sup> Pan-American Conference for Alternative Methods.**  
Location: Rio de Janeiro, Brazil. Role: Poster Presentation, Title: “Contribution Mapping: a tool for Structure–toxicity relationship (STR) interpretation of the Machine and Deep Learning methods.”
- 2017  **Brazilian Symposium on Water Waves.**  
Location: Rio de Janeiro, Brazil. Role: Oral Presentation, Title: “Recurrent anticyclone formation and shedding in the Barreirinhas Bight.”
- 2013  **Python Nordeste.**  
Location: Fortaleza - Brazil. Role: Participant.
- 2012  **Brazilian Symposium of Oceanography.**  
Location: Rio de Janeiro - Brazil. Role: Poster Presentation, Title: “Activities developed by the PET Oceanography group since its creation.”