Ivenis Italo C. Pita

Curriculum Vitae

Education

2019-Present **Doctor of Philosophy student in METEOROLOGY AND PHYSICAL OCEANOGRAPHY**, *Rosenstiel School of Marine and Atmospheric Science*, University of Miami, US.

2017 - 2019 **Master of Science in METEOROLOGY**, *Geoscience Institute*, Federal University of Rio de Janeiro, Brazil.
Master Thesis: *Modeling of the circulation in subinertial events at Guanabara Bay - RJ.*

2011 - 2016 **Bachelor of Science in OCEANOGRAPHY**, *Geoscience Institute*, Federal University of Bahia, Brazil.
Thesis: *A comparative analysis of surface velocity and volume transport along the high-density XBT transect located between Rio de Janeiro and Trindade Island (AX97): In Situ and Altimetry data.*
With exchange period of 18 months at University of Western Australia, Science Without Boarders Program.

Research Interest

Influence of the West Boundary Current dynamics at sea level in coastal areas of South America. Observational oceanography, mesoscale oceanography, coastal and the continental shelf modeling.

Publications

Pita, I. I. C.; Cirano, M.; Mata, M. M., 2020: "An assessment of Brazil Current surface velocity and associated transport near 22S: XBT and altimetry data", Regional Studies in Marine Science, Vol 35:101197, doi:10.1016/j.rsma.2020.101197

International Conferences

○ Oral Presentations

Pita, I. I. C.; Cirano, M.; Mata, M. M.; Lima, M. O., 2017: "Brazil Current volume transport estimatives along AX97 transect: In situ and altimetry data", In: 17th COLACMAR, 2017, Balneário Camboriú.

○ Poster Presentations

Cruz, S. ; Cirano, M. ; Mata, M. M. ; Goes, M. ; Goni, G. ; Paiva, A. M. ; **Pita, I. I. C.**, 2019: "An assessment of the Brazil Current structure and variability based on Ocean Prediction Systems and in situ measurements along the NOAA AX97 High-Density XBT transect", In: OceanPredict'19, 2019, Halifax.

Pita, I. I. C.; Cirano, M.; Mata, M. M.; Lima, M. O., 2018: " The Importance of Altimetry Data on Deciphering Brazil Current Core Velocities and Corresponding Volume Transport", In: 11th Coastal Altimetry Workshop, 2018, Frascati.

Pita, I. I. C.; Costa, N. V.; Crowe, J.; Oliveira, G. L., 2017: "Preliminary feasibility study for the implementation of an artificial surf reef in Albany, Western Australia", In: 17th COLACMAR, 2017, Balneário Camboriú.

Lima, M. O.; Cirano, M.; Mata, M. M.; **Pita, I. I. C.**; Oliveira, L. R.; Goni, G.; Baringer, M., 2014: "The Brazil Current Variability at the NOAA AX97 high density XBT line: a comparison between in situ data and Ocean Forecasting and Analysis Systems", In: 3rd International Coordination Workshop of the GODAE Ocean View Coastal & Shelf Seas Task Team (COSS-TT), 2014, Rincon.

Field Experiences

During the cruises listed below, I actively participated in instrument operation (XBT), near-real time data processing, quality control, decision taking, and adaptive sampling. I also co-authored the cruises and data processing reports.

Out 2018 **"POIT VIII"** - **Protrindade**.
Patrol Ship APA (Brazilian Navy) – Southwestern Atlantic 23S-20), 9 days at sea. Chief scientist (XBT deployment - AX97 transect): Ms. **Ivenis Pita**

Aug 2017 **"POIT VI"** - **Protrindade**.
Patrol Ship AMAZONAS (Brazilian Navy) – Southwestern Atlantic 23S-20), 9 days at sea. Chief scientist (XBT deployment - AX97 transect): Ms. **Ivenis Pita**

Jun 2017 **"POIT V"** - **Protrindade**.
Patrol Ship APA (Brazilian Navy) – Southwestern Atlantic 23S-20), 9 days at sea. Chief scientist (XBT deployment - AX97 transect): Dra. Natalia Ribeiro Santos

During the cruise listed below, I actively participated in instrument operation (XBT, CTD, Niskin bottles, LADCP), near-real time data processing, and adaptive sampling.

Nov 2013 **"Oceano Leste IV"** - **Protrindade**.
R/V ANTARES (Brazilian Navy) – Southwestern Atlantic 18S-13), 7 days at sea. Chief scientist: CDR. Helber Carvalho

Relevant Academic Experiences

2013 - 2014   **Monitoring the upper ocean transport variability in the western South Atlantic (MOVAR)**, *MOVAR performs periodically, since Aug 2004, data acquisition along the high density XBT AX97 transect, located between Rio de Janeiro and Trindade Island (20S, 30W).*
Function: Undergraduate Research Assistant,
Attributions: Compare Brazil Current surface signature based on AX97 data to Altimetry datasets (e.g., AVISO, ATOBA).

2018 - 2019   **Monitoring the upper ocean transport variability in the western South Atlantic (MOVAR)**, *MOVAR performs periodically, since Aug 2004, data acquisition along the high density XBT AX97 transect, located between Rio de Janeiro and Trindade Island (20S, 30W).*
Function: Graduate (Masters) Research Assistant,
Attributions: Responsible for some field expeditions, troubleshooting, decision taking, qualify new-come ship riders.

Teaching Experience

Fall 2020   Teaching Assistant for "Introduction to Physical Oceanography" - University of Miami. instructor: Dra. Josefina Olascoaga

Spring 2021   Teaching Assistant for "Environmental Statistics" - University of Miami. instructor: Dr. William Drennan

Computer Skills

Programing	Python (basics)
Diagraming	LaTeX
Applications	Matlab, HTML (basics)
Models	Delft-3D

Languages

Portuguese	**Mothertongue**	
English	**Fluent**	
Spanish	**Intermediate**	*Small talks and General comprehension in writing*