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# Ana Beatriz Villas Bôas

### Education

2014—Present | PhD in physical oceanography, Scripps Institution of Oceanography.

2012–2014 | MSc. in physical oceanography, University of São Paulo.

2007–2011 | **BSc. in physics**, Federal University of Rio Grande do Norte.

## Research Experience

#### 2014-Present

#### Graduate Student Researcher - SIO

I look at how surface currents modulate the wave field at meso and submesoscales, and how non-breaking waves contribute to vertical mixing in the upper ocean. Advisors: **Sarah Gille**, Matthew Mazloff, and Bruce Cornuelle.

#### 2012 - 2014

#### Graduate Student Researcher - IOUSP

Masters student at the Oceanographic Institute of the University of São Paulo (IOUSP) working on air—sea interactions at mesoscales. Title of the project: "The contribution of mesoscale eddies to the surface heat budget in the South Atlantic", funded by the São Paulo Research Foundation (FAPESP)

#### 2013 | Visiting Research Student - LEGOS

Visiting research student at the Laboratoire d'Etudes en Géophysique et Océanographie Spatiales (LEGOS), Toulouse, France. Working on the identification of mesoscale eddies and eddy dynamics under the supervision of Dr. Alexis Chaigneau. This work was funded by the Research Internships Abroad (BEPE) program from the the São Paulo Research Foundation (FAPESP). Title of the project: "The methods of identifying mesoscale eddies from satellite altimetry data".

#### 2011 | Undergraduate Research - UFRN

Undergraduate research project at the Federal University of Rio Grande do Norte (UFRN), working on the dynamics of well-mixed estuaries.

### **Publications**

Ana B. Villas Bôas, Sarah T. Gille, Matthew R. Mazloff, and Bruce D. Cornuelle. Characterization of the deep water surface wave variability in the California Current Region. *Journal of Geophysical Research: Oceans*, 122(11):8753–8769, 2017

Ana B Villas Bôas, Olga T Sato, Alexis Chaigneau, and Guilherme P Castelão. The signature of mesoscale eddies on the air-sea turbulent heat fluxes in the south atlantic ocean. *Geophysical Research Letters*, 42(6):1856–1862, 2015

Guilherme P Castelão, Luiz C Irber, and **Ana B Villas Bôas**. An objective reference system for studying rings in the ocean. *Computers & Geosciences*, 61:43–49, 2013

# Fellowships and Awards

- 2017 | NASA Earth and Space Science Graduate Fellowship Awarded by the National Aeronautics and Space Administration
- 2017 Outstanding Mentor Award Awarded by Scripps Institution of Oceanography for guidance, leadership, and unwavering commitment to helping fellow students
- 2014 T.R. and Edith Folsom Endowed Graduate Fellowship Fund Awarded by Scripps Institution of Oceanography

### Service

- 2016–2017 | Peer Mentor Mentor for first year students as part of the peer mentor program at Scripps Institution of Oceanography, San Diego, CA.
  - 2016 **Student Committee Member** Served as a member of the student committee for the observational physical oceanography faculty search at Scripps Institution of Oceanography

## Teaching Experience

2010 | Linear Algebra - Teaching assistant for linear algebra - Federal University of Rio Grande do Norte, Natal, Brazil.

**Calculus II** - Teaching assistant for calculus II – Federal University of Rio Grande do Norte, Natal, Brazil.

# Computational skills

OPERATING	Unix-based operating systems, command—line, Bash, and Shell-Script.
Systems	
Programming Languages	Python, C, Fortran, and MatLab.
Tools and Software	LaTeX, VIM, version control systems (Git, Mercurial), iPython notebooks, and Markdown.

# Languages

Portuguese: Native language English: Full proficiency

Spanish: Professional working proficiency
French: Limited working proficiency

### References

Dr. Sarah Gille:

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Dr. Bruce Cornuelle:

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