

# Wilton Aguiar

Oceanographer

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## Education

### 2017-Current

#### **Ph.D: Oceanography** Advisor: **Mauricio M. Mata, Ph.D**

Federal University  
of Rio Grande,  
Rio Grande, Brazil

- **Thesis:** *Ocean overturning and South American Monsoon System during the 8.2 ka event*

### 2018-2019

#### **Fulbright Visiting Scholar** Advisor: **Zhengyu Liu, Ph.D**

Ohio State University,  
Columbus, USA

- Collaboration with Ph.Ds Alvaro Montenegro and Katrin J. Meissner.
- Simulation of the 8.2 ka event and its climate signal

### 2015-2017

#### **Master of Science: Oceanography** Advisor: **Mauricio M. Mata, Ph.D**

Federal University  
of Rio Grande,  
Rio Grande, Brazil

- **Dissertation:** *Antarctic Bottom Water Formation Mechanisms in Ocean Reanalysis Products and the Weddell Polynya*

### 2008-2015

#### **Bachelor of Science: Oceanography**

Federal University  
of Bahia, Brazil

- Funded by the Capes Foundation scholarship Program

## Professional Experience

### 2018-Feb - 2018-Mar

**Research Assistant - Antarctic Operation XXXVI**

- Operation of CTD Rosette, Station planning

### 2016-Feb - 2016-Mar

**Research Assistant - Antarctic Operation XXXIII**

- Operation of CTD Rosette, Station planning

### 2015-Oct

**Specialized Technician - Protrindade Operation VI**

- Operated the Expendable bathythermograph to monitor Brazil's current

### 2014-Mar - 2014-Aug

**Research Assistant - University of Victoria, CA**

Earth and Ocean  
Sciences Department

- Evaluation of wind cycles and climatology for Los Alamos, NM

## Awards and Honors

### 2017-Current

**Capes Foundation Ph.D Scholarship (BRL \$110000,00)**

### 2018 - 2019

**Fulbright** Doctoral Research Award (US \$ 17520,00)

2015-2017 Capes Foundation Masters Scholarship (BRL \$36000,00)

2014-2015 Science Without Borders Program (CAD \$ 19708,00)

## Teaching and Advising

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2018-Apr - 2018-Jul **Oceans and Climate** - *Federal University of Rio Grande*

Teaching Assistant

2016-Aug - 2016-Dec **Ocean Dynamics II** - *Federal University of Rio Grande*

Teaching Assistant

2015-Nov - 2015-Nov **Practical Experiments** - *Federal University of Rio Grande*

Teaching Assistant

## Skills

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**Languages:** English (Fluent, TOEFL iBT® 109), Portuguese (Fluent)

**Programming:** MATLAB®(Advanced), R (Advanced), Unix/Linux, High performance computing

**Earth System Modelling** UVic model, Oxygen Isotope modelling.

**Equipment operation:** Operation of XBT and CTD in ship cruises

## Publications

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### Under Review

**Aguiar, W.**, Prado, L. F., Wainer, I., Montenegro, A., Meissner, K. J., Mata, M. M.: Insights into the 8.2 ka freshwater forcing, based on simulated oxygen isotopes, In preparation.

### Published

**Aguiar, W.**, Prado, L. F., Wainer, I., Liu, Z., Montenegro, A., Meissner, K. J., Mata, M. M.: Freshwater forcing control on early-Holocene South American Monsoon, *Quaternary Science Reviews*. 2020. DOI: 10.1016/j.quascirev.2020.106498

**Aguiar, W.**, Mata, M. M., and Kerr, R.: On the deep convection events and Antarctic Bottom Water formation in ocean reanalysis products, *Ocean Science*. <https://doi.org/10.5194/os-2017-9>, 2017.

Pereira, T. D. S., Moreira, Í. T., de Oliveira, O. M., Rios, M. C., **Filho, W. A. C. S.**, de Almeida, M., & de Carvalho, G. C. Distribution and ecotoxicology of bioavailable metals and As in surface sediments of Paraguaçu estuary, Todos os Santos Bay, Brazil. *Marine pollution bulletin*, 99(1), 166-177. 2015.

Silva, S., Genz, F., **Aguiar, W.**, Silva, N., Kiperstok, A.: Avaliação da ocorrência de secas na Bahia utilizando o Índice de Precipitação Padronizada (SPI). *In English: Evaluation of Drought events occurrence in Bahia (Brazil), using the Standard Precipitation Index (SPI)*. *Bahia Análise & Dados*, 2013.

Oliveira, J.C., **Aguiar W.**, Cirano, M., Genz, F. Amorim, F.N.: A climatology of the annual cycle of river discharges into the Brazilian continental shelves: from seasonal to interannual variability. *Environmental Earth Sciences*, 2018.

## Newsletter publications

**Aguiar W**, Correa L.: Longing for South American history. Que Pasa? Ohio State University. 2018. Pg 12-13. Access : <https://kb.osu.edu/handle/1811/87853>

## Conference Posters

**Aguiar, W.**; Prado, L. ; Mata, M. M. ; Wainer, I. Liu Z. :Early-Holocene South Atlantic thermal structure and the control of South American Monsoons. In: Ocean Science Meeting 2020. San Diego, U.S.A.

**Aguiar, W.**; Prado, L.; Mata, M. M. ; Wainer, I. South American Monsoon system during the 8.2 ka event. In: AGU Fall meeting 2018, 2018, Washington, DC

**Aguiar, W.**; Mata, M. M.; Kerr R. . Antarctic Bottom Water formation and deep convection events in ocean reanalysis products.. In: Joint Assembly 2017, 2017, Cape Town. Abstract Book of the 2017 IAPSO/IAMAS/IAGA Joint Assembly., 2017. v. 1. p. 1093.

**Aguiar, W.**; Mata, M. M.; Relationship between Antarctic Bottom Water and the Weddell Gyre Variability in UR025.4 reanalysis. In: CLIVAR - Climate and Ocean: Variability, Predictability and Change, 2016, Qingdao.

## PERSONAL REFERENCES

**Prof. Ph.D Mauricio M. Mata**

PhD in Oceanography,  
mauricio.m.mata@gmail.com  
Professor of Federal  
University of Rio Grande -  
FURG.

**Prof. Ph.D Alvaro Montenegro**

PhD in Oceanography,  
montenegro.8@osu.edu  
Assistant Professor at Ohio  
State University - OSU

**Prof. Ph.D Katrin J. Meissner**

PhD in Physics  
k.meissner@unsw.edu.au  
Director of the Climate  
Change Research Centre -  
CCRC