

# Bruno Ferrero

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## Education

- ongoing*     **Ph.D. in Physical Oceanography**  
Oceanographic Institute, University of São Paulo  
Start date: March-2016
- 2017     **B.S. in Computer Science**  
Institute of Mathematics and Statistics, University of São Paulo, Brazil
- 2009     **M.S. in Physical Oceanography**  
Oceanographic Institute, University of São Paulo, Brazil
- 2007     **B.S. in Oceanography**  
Oceanographic Institute, University of São Paulo, Brazil

## Work Experience

- 2016–2017     **Research Assistant @ OC<sup>2</sup>/PETROBRAS, São Paulo**  
Project: *Tracking of Eddies in Climate Change Projection Scenarios*  
Activities: Eddy tracking algorithm implementation;  
Support to ocean dynamical downscaling; [Data visualization](#);
- 2014–2015     **Project Scientist @ OC<sup>2</sup>/AGEDI, São Paulo/Abu Dhabi**  
Project: *Regional Climate Change Modeling: Arabian Gulf*  
Project: *Desalination & Climate Change: Arabian Gulf*  
Activities: Ocean model results validation; Statistical data analysis;  
Data Visualization; [Report](#);
- 2011–2013     **Research Assistant @ OC<sup>2</sup>/PETROBRAS, São Paulo**  
Project: *Climate Change Impacts in Offshore Operations at Campos Basin*  
Activities: modeling support; Data analysis and visualization.
- 2010     **Quantitative Analyst @ Dunamis Equity Partners, São Paulo**  
High frequency trading, backtest framework for quant strategies

## Teaching Experience

- 2008, 2010     Differential and Integral Calculus I, *Teaching Assistant at Univ. of São Paulo Mar–Jul*
- 2009     Ocean System II, *Teaching Assistant at Univ. of São Paulo, Mar–Jul*

## Additional Courses

- 2018     **CESM Tutorial**  
*National Center for Atmospheric Research Boulder/USA, one week duration, 2018*
- 2018     **CLIVAR Summer School on Sea Level Changes**  
*FIO Qingdao/China, one week duration, 2018*
- 2018     **UNESCO/IOC Training Course on Ocean Forecast System**  
*FIO Qingdao/China, one week duration, 2018*

# Skills

## Programming

C/C++, MS-C#, R, Matlab, Shell Script (Bash), Git (see my [GitHub](#))

NetCDF/NCO/CDO, Ferret/NOAA, NCL

Python [Jupyter, NumPy, xarray, pandas, Matplotlib]

## Languages

*Portuguese* (native), *English* (advanced), *German* (basic), *French* (basic)

## Conference Presentations

1. Ferrero et. al (2012), *Local to regional climate dynamics for the South Atlantic ocean in down-scaled projections PART II: IPCC-AR4 scenario analysis*, Planet Under Pressure 2012, London/UK
2. Ferrero et. al (2017), *Global and Regional Sea Level in CMIP5 Models: piControl and historical Scenario*, WCRP/IOC Sea Level Conference 2017, New York/USA