Filipe P. A. Fernandes

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JOB OBJECTIVE I am currently exploring the possibility of obtaining a position as a meteo-oceanographic data analyst or scientific programmer in atmospheric and oceans sciences projects, in a challenging environment, providing opportunities for growth and advancement, where I can utilize my experience programming skills and academic experience toward becoming a valuable team member.

HONORS AND AWARDS

Fulbright Scholarship.	2007
FAPESP Scholarship. São Paulo State Science Foundation.	2003
National Petroleum Agency Scholarship (ANP – Brazil).	2001
Young researcher award from CNPq/FURG.	1999

EDUCATION

Ph.D. Candidate, School of Marine Science 2012
University of Massachusetts Dartmouth, USA.
Dissertation title: Winter Mixed Layer in the Gulf of Maine.

Master's in Physical Oceanography 2005
São Paulo University, USP, São Paulo, Brazil.
Thesis title: Parametric Models for the Brazil Current System Eddies.

Bachelor's in Oceanography, Interdisciplinary Science 2002
Universidade Federal do Rio Grande, FURG, Rio Grande do Sul, Brazil.
Undergraduate dissertation: Tidal Circulation in a Submarine Canyon using the Princeton Ocean Model (POM).

EXPERIENCE

Associate Researcher. 2012–present
São Paulo University, USP, São Paulo, Brazil.

- AMBES Project. Petróleo Brasileiro S.A. (PETROBRAS).
- Study of the Espírito Santo basin using hydrographic, ADCP data and ROMS model.

Google Summer of Code. 2011
Google, Inc. Mountain View, CA.
- Python implementation of NASA's GISTEMP using NumPy arrays.

Teaching Assistant. Fall 2007, Fall 2009
University of Massachusetts Dartmouth, MA.
- Physical Oceanography.

Associate Researcher. 2005
São Paulo University, USP, São Paulo, Brazil.

- Abrolhos Project. Petróleo Brasileiro S.A. (PETROBRAS).
- Study the formation site of the Brazilian Current using hydrographic and ADCP data.

Associate Researcher. 2004
Universidade de São Paulo, SP.

- Marine environmental research on the RLAM influence area. Petróleo Brasileiro S.A. (PETROBRAS). Todos os Santos Bay, BA.
- Risk assessment study at Refinaria Landulpho Alves (RLAM).

Associate Researcher.   2003
Universidade de São Paulo, SP.
- Risk assessment study of Piaçaguera Channel dredging. Ultrafértil. COSIPA Terminal, SP
- Oceanographic and meteorological data analysis.

COMPUTER SKILLS

Languages & Software: FORTRAN, Matlab, R, Python
Operating Systems: Linux, MacOS, Windows

LANGUAGES

English, Portuguese, Italian, Spanish.

COURSES

Data Assimilation.   2008, 2010
Centro Euro Mediterraneo per I Cambiamenti Climati, Bologna, Italy.
- Advanced School on Data Assimilation, Part I and II

Numerical Modelling.   2002
Universidade Federal do Rio Grande, FURG, Rio Grande do Sul, Brazil.
- POM, the Princeton Ocean Numerical Model

Environmental Law.   2001
Universidade Federal do Rio Grande, FURG, Rio Grande do Sul, Brazil.
- Law of the Sea.

FIELD EXPERIENCE

Oceanographic Cruise AMB 10.   2013
Ship: N/Oc. Seward Johnson
- Place: Espírito Santo Bight and Abrolhos Bank, Brazil
- Organization: PETROBRAS/CP+

Oceanographic Cruise AMB 09.   2012
Ship: N/Oc. Seward Johnson
- Place: Espírito Santo Bight and Abrolhos Bank, Brazil
- Organization: PETROBRAS/CP+

Oceanographic Cruise ABROLHOS II.   2005
Ship: N/Oc. Prof. W. Besnard
- Place: Espírito Santo Bight and Abrolhos Bank, Brazil
- Organization: Oceanographic Institute of University of São Paulo

Oceanographic Cruise ABROLHOS I.   2004
Ship: N/Oc. Prof. W. Besnard
- Place: Espírito Santo Bight and Abrolhos Bank, Brazil
- Organization: Oceanographic Institute of University of São Paulo

Hydrographic program: Oceano Sul II.   02/2003
Ship: N/Oc. Antares
- Place: Espírito Santo Bight and Abrolhos Bank, Brazil
- Organization: Brazilian Navy

DEPROAS Mooring deployment.   2003
Ship: N/Oc. Prof. W. Besnard
- Place: Campos and Santos Bight, Brazil
- Organization: Oceanographic Institute of University of São Paulo

Oceanographic Cruise DEPROAS P2003.   2003
Ship: N/Oc. Prof. W. Besnard
- Place: Santos Bight, Brazil
- Organization: Oceanographic Institute of University of São Paulo

POSTERS, ABSTRACTS AND PUBLICATIONS

- Passos, L.G., Silveira, I.C.A., **Fernandes, F.P.A.**, Mattos, R.A., Soutelino, R.G., and Ribeiro, E.O. Flow patterns off the Abrolhos Bank (*In preparation*).
- **Fernandes, F.P.A.**, Silveira, I.A., Sato, O.T. Depth projection of Velocity, Density, and Temperature using velocity-based feature model with surface ADCP data (*In preparation*).
- Miranda, L.B., Silveira, I.C.A., **Fernandes, F.P.A.**, Ponsoni, L., and Costa, T.P. A descriptive analysis of the seasonal variation of physical oceanographic characteristics in the northern region of the Todos os Santos Bay (Bahia, Brazil). *Braz. J. Oceanogr.*, São Paulo, v. 59, n. 1, 2011.
- **Fernandes, F.P.A.**, Brown, W.S. Using a simple convection model to diagnose Gulf of Maine Winter Mixed Layer variability. *Ocean Science Meeting*, Salt Lake City, UT, 2012.
- **Fernandes, F.P.A.**, Brown, W.S., A simple Winter Water formation (and convection) model in the Gulf of Maine. *Gordon Research Conferences*, 2011.
- Passos, L.G., Silveira, I.C.A., Calado, L., **Fernandes, F.P.A.**, Mattos, R.A., Soutelino, R.G., and Ribeiro, E.O. Estrutura tridimensional dos vortices de Vitória e Abrolhos. IX Simpósio sobre Ondas, Marés, Engenharia Oceânica e Oceanografia por Satélite – *OMAR-SAT*, 2011.
- **Fernandes, F.P.A.**, Silveira, I. A. Vertical projection of velocity, density and temperature using velocity-based feature model and a liberalized equation of state. *Ocean Science Meeting*, Orlando, FL 2008.
- Silveira, I.C.A., Ribeiro, E.O., Mattos, R.A. de, **Fernandes, F.P.A.**, Lima, J.M.L. Mesoscale Brazil Current patterns between 18°– 22°S. In: *Ocean Sciences Meeting*, Honolulu–HI 2006.
- Gama, R.M., **Fernandes, F.P.A.**, Möller Jr, O. Canyons submarinos: história, origen, circulação e importância para a indústria do petróleo. In: *Simpósio Brasileiro de Oceanografia*, São Paulo–Brazil, 2002.