

Fernando S. PAOLO

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EDUCATION

Ph.D. GEOPHYSICS, **Scripps Institution of Oceanography**, Univ. of California, SD (*Ongoing*)
M.S. GEOPHYSICS (w/honors), University of São Paulo, Brazil 2009
B.S. OCEANOGRAPHY (w/honors), University of São Paulo, Brazil 2007
Tech. GRAPHIC ARTS, Municipal School of Tech. Education, Argentina 1996

INTERESTS

Satellite remote sensing of ice sheets, ice-ocean-atmosphere interaction, ice-shelf/sheet mass balance, climate change | Radar and laser altimetry, radar interferometry and imagery, processing and analysis of big data.

RESEARCH

Current 2010–PRESENT	DOCTORAL DISSERTATION at UCSD Interannual and decadal variations of Antarctic ice shelves using multi-mission satellite radar altimetry, and links with oceanic and atmospheric forcings.
2007–2009	MASTER'S THESIS at USP Satellite altimetry and marine gravity on the integrated representation of the gravity field in the Brazilian coast.
2004–2006	BACHELOR'S THESIS at USP Characterization of bottom morphodynamics of Cananéia estuary by shallow seismic profiling and side scan sonar.
2003–2004	UNDERGRADUATE RESEARCH at USP Study on hydrocarbon concentrations in water and sediment from King George Island, Antarctica (<i>including fieldwork</i>).

FIELDWORK

DEC 2004	RV <i>P.W. Besnard</i> , Geophysical and Geological Survey, Brazil coast (12 days at sea)
JAN 2004	Brazilian Antarctic Research Station <i>Comandante Ferraz</i> (30 days in Antarctica)
DEC 2003	RB <i>Escuna</i> , Environmental Monitoring Program, Bahia, Brazil (14 days at sea)
JAN 2003	RV <i>P.W. Besnard</i> , Oceanographic Moorings II, Brazil coast (8 days at sea)
JUL 2002	RV <i>P.W. Besnard</i> , Oceanographic Moorings I, Brazil coast (9 days at sea)

TEACHING

AUG–DEC 2008	Computing for Geophysicists, TA at University of São Paulo
MAR–JUL 2008	Introduction to Geophysics, TA at University of São Paulo

AWARDS AND HONORS

- 2012, 2013 NASA Earth and Space Science Fellowship (NESSF)
- 2011 AAASPD Student Award (1st place), Atmospheric and Oceanographic Sciences
- 2010 AGU Outstanding Student Paper Award, Cryosphere
- 2010 Honor Mention (best M.S. Thesis in geophysics), University of São Paulo
- 2008 TA Fellowship (M.S.), Brazilian Ministry of Education
- 2007, 2008 Graduate Fellowship (M.S.), Brazilian Ministry of Science and Technology
- 2007 Honor Mention (2nd best B.S. Thesis), University of São Paulo
- 2005, 2006 Undergrad. Fellowship, São Paulo Research Foundation
- 2004 Undergrad. Fellowship, Brazilian Ministry of Science and Technology

SKILLS

- PROGRAMMING: Python, C/C++, Fortran 90/95, Shell-Script, HTML/CSS/JavaScript
- SOFTWARES: UNIX/Mac/LINUX, VTK/VisIt/ParaView, GMT, MATLAB, GIS, \LaTeX , VIM, etc.
- LANGUAGES: English (fluent), Portuguese (native), Spanish (native)
- COMMUNICATION: Received training in Public Speaking & Leadership | Presented 5 talks and 5 posters at (inter)national meetings | Edited lab grants and proposals | Reviewer for *Journal of Glaciology* and *The Cryosphere Discussion* | Organized 2 institutional seminar series | Developed and maintain 3 websites: lab, conference and personal

PUBLICATIONS

Journal Articles

3. **Paolo, F.S.** and E.C. Molina (2010), Integrated marine gravity field in the Brazilian coast from altimeter-derived sea surface gradient and shipborne gravity. *J. Geodyn.*, 50, 347-354. doi:10.1016/j.jog.2010.04.003
2. Bicego, M.C., E. Zanardi-Lamardo, S. Taniguchi, C.C. Martins, D.A.M. da Silva, S.T. Sasaki, A.C.R. Albergaria-Barbosa, **F.S. Paolo**, R.R. Weber and R.C. Montone (2009), Results from a 15-year study on hydrocarbon concentrations in water and sediment from Admiralty Bay, King George Island, Antarctica. *Antarct. Sci.*, 21, 209-220. doi:10.1017/S0954102009001734
1. **Paolo, F.S.** and M.M. Mahiques (2008), Utilization of acoustic methods in coastal dynamics studies: example in the Cananéia lagoonal mouth. *Braz. J. Geophys.*, 26(2), 211-225. doi:10.1590/S0102-261X2008000200008

Datasets

1. Moholdt, G., H.A. Fricker, L. Padman and **F.S. Paolo** (2013), Synthesized grounding line and ice shelf mask for Antarctica. *Scripps Institution of Oceanography, UCSD*, 25 pp. doi.pangaea.de/10.1594/PANGAEA.819150

INVITED TALKS

- 14 JUN 2011 Elevation changes on Antarctic ice shelves, AAAS Pacific Division, 92nd Annual Meeting, San Diego.

REFERENCES

Dr Helen A. Fricker, Remote Sensing and Glaciology, UC San Diego...
Dr Laurie Padman, Physical Oceanography, Earth & Space Research...
Dr David T. Sandwell, Remote Sensing and Geodesy, UC San Diego...

Last updated: May 1, 2014