

Fernando S. PAOLO

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EDUCATION

Ph.D. GEOPHYSICS, **Scripps Oceanography**, University of California, San Diego (*Sep 2, 2015*)
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, Muni. School of Tech. Education, Argentina 1996

INTERESTS

Satellite remote sensing, ice-ocean-atmosphere interaction, ice-shelf/ice-sheet mass balance, climate change | Radar and laser altimetry, radar interferometry and imagery | Processing and analysis of large-scale data, image processing, statistical modeling and time-series analysis.

RESEARCH

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

- 2014 AGU Outstanding Student Paper Award, Cryosphere
- 2012, 2013, 2014 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
- SOFTWARE: UNIX/Mac/LINUX, VTK/ParaView, GMT, MATLAB, GIS, \LaTeX , git, VIM, etc.
- LANGUAGES: English (fluent), Portuguese (native), Spanish (native)
- COMMUNICATION: Received training in Public Speaking & Leadership | Presented 7 talks and 5 posters at (inter)national meetings | Co-wrote lab grants and proposals | Reviewer for *Geophys. Res. Lett.*, *J. Glaciol.* and *The Cryosphere* | Organized 2 institutional seminar series | Developed and maintain 3 websites: lab, conference and personal

PUBLICATIONS

Journal Articles

6. **F. S. Paolo**, H. A. Fricker, L. Padman, Developing optimal decadal records of Antarctic ice-shelf height change from multiple satellite radar altimeters, *Remote Sens. Environ.* (in review).
5. P. R. Holland, A. Brisbourne, H. F. J. Corr, D. McGrath, K. Purdon, J. Paden, H. A. Fricker, **F. S. Paolo**, A. Fleming, Oceanic and atmospheric forcing of Larsen C Ice Shelf thinning, *The Cryosphere* (2015).
4. **F. S. Paolo**, H.A. Fricker, L. Padman, Volume loss from Antarctic ice shelves is accelerating, *Science* (2015). doi:10.1126/science.aaa0940
3. **F. S. Paolo**, E. C. Molina, Integrated marine gravity field in the Brazilian coast from altimeter-derived sea surface gradient and shipborne gravity, *J. Geodyn.*, 50, 347-354 (2010). doi:10.1016/j.jog.2010.04.003
2. M. C. Bícigo, 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, R. C. Montone, 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 (2009). doi:10.1017/S0954102009001734
1. **F. S. Paolo**, M. M. Mahiques, Utilization of acoustic methods in coastal dynamics studies: example in the Cananéia lagoonal mouth, *Braz. J. Geophys.*, 26(2), 211-225 (2008). 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, hafricker@ucsd.edu
Dr Laurie Padman, Physical Oceanography, Earth & Space Research, padman@esr.org
Dr David T. Sandwell, Remote Sensing and Geodesy, UC San Diego, dsandwell@ucsd.edu

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