

PAULO H. R. CALIL

Professor Adjunto II

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Education

- School of Ocean and Earth Sciences and Technology
University of Hawaii at Manoa
Ph.D. in Oceanography
2003–2009
- Instituto Oceanográfico
Universidade de São Paulo
São Paulo, Brazil
M.Sc. in Physical Oceanography
2002
- Instituto de Física
Universidade de São Paulo
São Paulo, Brazil
B.Sc. in Physics
1999

Professional Experience

- **Universidade Federal do Rio Grande**—Rio Grande, Brazil
Professor Adjunto (Mar 2012 - Present)
- **National Institute of Water and Atmospheric Research Inc.**—Wellington, New Zealand
Physical Oceanography Research Scientist (Jan 2011 - Mar 2012)
- **Dept. of Marine Chemistry and Geochemistry - Woods Hole Oceanographic Institution**—
Woods Hole, USA
Post-Doctoral Investigator (Aug 2009 - Dec 2010)
 - Supervisor: Scott C. Doney
- **Dept. of Oceanography - University of Hawaii at Manoa**—Honolulu, USA
Research Assistant (Aug 2003 - Mar 2009)
 - Supervisor: Kelvin J. Richards

Teaching Experience

- **Universidade Federal do Rio Grande**—Rio Grande, Brazil
Professor - Dinâmica da Plataforma Continental and Métodos Matemáticos Aplicados à Oceanografia
- 2012, 2013, 2014
 - **University of Hawaii at Manoa**—Honolulu, USA
Teaching Assistant - OCN-363: Global Environmental Databases - Spring 2007

- * Supervisor: Jim Potentra
- **University of Hawaii at Manoa**—Honolulu, USA
Teaching Assistant - OCN 310L: Global Environmental Change Laboratory - Fall 2006
- * Supervisor: Richard Zeebe
- **University of Hawaii at Manoa**—Honolulu, USA
Teaching Assistant - OCN 310L: Global Environmental Change Laboratory - Fall 2005
- * Supervisor: Richard Zeebe
- **University of Hawaii at Manoa**—Honolulu, USA
Teaching Assistant - OCN 620: Physical Oceanography - Fall 2004
- * Supervisors: Eric Firing, Pierre Flament and Mark Merrifield

Workshops

- International Workshop on Living Organisms in Flows: From Small-scale Turbulence to Geophysical Flows.
Palma de Mallorca, Spain
June 7 to June 11, 2010
- Influence of meso- and submesoscale ocean dynamics on the global carbon cycle and marine ecosystems.
Centre de la Mer, Aber Wrach, Brittany, France
May 31 to June 2, 2010
- 2009 CMORE Summer Course on Microbial Oceanography
"Microbial Oceanography: Genomes to Biomes"
Honolulu, USA
June 08 to July 17, 2009
- EUR-OCEANS/CARBOOCEAN Summer School 2007
Combining data and models - statistical analysis and data assimilation in biogeochemical oceanography
IFM-GEOMAR, Kiel, Germany
September 2007
- Alpine Summer School, Course XIV on Fronts, Waves and Vortices
Valsavarenche, Valle d'Aosta, Italy
June 2006
- GODAE Summer School
Lalonde-Les Maures, France
September 2004

Conferences - Only First Authored Listed

- IUGG XXV General Assembly - Melbourne, Australia - Jun 2011 - Talk: *Episodic Upwelling and Dust Deposition as Bloom Triggers in Low Nutrient Low Chlorophyll Regions*
- Joint Conference on Extreme Weather 2011 - Wellington, New Zealand - Feb/2011 - Talk: *Submesoscale, Episodic Upwelling and Dust Deposition as Bloom Triggers in Low Nutrient Low Chlorophyll (LNLC) Regions*
- Ocean Sciences - Portland, USA - Feb/2010 - Talk: *Modulation of Carbon Export at the Submesoscale by Lagrangian Coherent Structures*
- AGU Fall Meeting - San Francisco, USA - Dec/2008 - Talk: *Meso- and Submesoscale Mechanisms of Vertical Exchange of Fluid Associated with Mesoscale Eddies around Hawaii*

- Physical Oceanography Dissertation Symposium (PODS) - *Invited Participant* - Honolulu, HI - October 2008
- Ocean Sciences - Orlando, USA - Mar/2008 - Talk: *Generation of Submesoscale Vorticity Filaments and their Impact on Primary Productivity in an Island Wake*
- Ocean Sciences - Honolulu, USA - Feb/2006 - Talk : *An Investigation of the Eddy Activity in the lee of the Hawaiian Islands*
- Simpósio Brasileiro de Oceanografia - São Paulo, Brazil - Aug/2002 - Poster: *São Modelos de Dinâmica de Contornos Boas Representações de Sistemas de Correntes de Contorno Oeste? (Are Contour Dynamics Models Good Representations of Western Boundary Current Systems?)*

Awards

- Student Travel for Achievement in Research (START) Symposium winner of 2007
Dept. of Oceanography - SOEST
University of Hawaii
- UH/MHPCC Student Engagement Grant 2007-2008

Publications

- Guidi, L., Calil, P.H.R., Duhamel, S. Bjorkman, K.M., Jackson, G.A., Stemman, L., Li, B., Tozzi, S., Kolber, Z.S., Fong, A., Church, M.J., Richards, K.J., Doney, S.C., Letelier, R., Gorsky, G., Karl, D.M. (2012) **Does eddy-eddy interaction control surface phytoplankton distribution and carbon export in the North Pacific Subtropical Gyre?** *J. Geophys. Res. - Biogeosciences*, 117, G02024, doi:10.1029/2012JG001984
- Jia, Y., Calil, P.H.R., Chassignet, E.P., Hacker, P.W., Metzger, E.J., Potemra, J., Richards, K.J., Wallcraft, A.J. (2011) **Generation of Mesoscale Edies in the Lee the Hawaiian Islands** *J. Geophys. Res. - Oceans*, 116, C11009, doi:10.1029/2011JC007305
- Calil, P.H.R., S. C. Doney, K. Yumimoto, Eguchi, T. Takemura (2011) **Episodic Upwelling and Dust Deposition as Bloom Triggers in Low Nutrient Low Chlorophyll (LNLC) Regions** - *J. Geophys. Res. - Oceans*, 116, C06030, doi:10.1029/2010JC006704
- Calil, P.H.R., Richards, K.J. (2010) **Transient Upwelling Hot Spots in the Oligotrophic North Pacific** (*J. Geophys. Res. - Oceans*, 115, C02003, doi:10.1029/2009JC005360)
- Calil, P.H.R., Richards, K.J., Jia, Y., Bidigare R.R. **Eddy Activity in the Lee of the Hawaiian Islands** (*Deep-Sea Research II*), Vol 55/10-13 pp 1179-1194. doi:10.1016/j.dsr2.2008.01.008

Projects

- Graduate student, E-Flux, 2004-2006, PI- Claudia Benitez-Nelson.
- Coordinator, MHPCC Engagement Grant, 2007-2008.
- Graduate student, CMORE, 2008-2009.
- Post-doctoral Investigator, CMORE, 2009-2010.

Cruise Experience

- Researcher, Solander Trough Survey - April 10-May 1 2011 - New Zealand
- Researcher,CMORE-Agouron Summer School Cruise on R/V Kilo Moana - Jun 22-30 2009, Hawaii
- Researcher, CMORE-OPEREX Cruise on R/V Kilo Moana - Jul 30- Aug 15 2008, Hawaii
- Chief Scientist, Student Cruise on R/V Kilo Moana - 15-21 October 2005, Hawaii
- Researcher, E-Flux Project cruise on R/V Wecoma - 10-28 March 2005, Hawaii
- Researcher, DEPROAS Pilot cruise on R/V Prof. W. Besnard - 5-22 Feb 2001, Rio de Janeiro, Brazil