## Allison W. Jacobel

jacobel @ldeo.columbia.edu

Lamont-Doherty Earth Observatory 435 W.		Address 19th St, Apt. 7F k, NY 10027 -1813	
Education	<b>2013-Present</b> Columbia University, New York, NY Ph.D. candidate in Paleoclimatology/Paleoceanography Committee: Dr. Jerry McManus, Dr. Gisela Winckler, Dr. Robert A Degree Expected: December 2016	nderson	
	<ul><li>2011-2013</li><li>Columbia University, New York, NY</li><li>M.A. Department of Earth and Environmental Studies</li><li>Thesis: Stable Isotope and Trace Element Signatures across Marine Isotope Stage 5:</li><li>A Perspective from the Eastern Equatorial Pacific</li></ul>		
	<ul> <li>2007-2011</li> <li>Macalester College, St. Paul, MN</li> <li>B.A. Geology, with Departmental Honors, Magna Cum Laude</li> <li>Minor in Environmental Studies</li> <li>Thesis: Southern Hemisphere Climate Variability during the Last International Studies</li> </ul>	terglacial	
Research Experience	<ul> <li>Ph.D. Research, Columbia University Janu</li> <li>Analysis of sediments from cruise ML1208 in the Central Equa</li> <li>U-series isotope analysis of marine sediments</li> <li>Paleo-productivity reconstructions</li> </ul>	uary 2014-present torial Pacific	
	<ul> <li>Scientific Party, RRS James Cook (JC094)</li> <li>ROV sampling, sediment coring, dredging and water analysis</li> <li>Foraminifera biostratigraphy and assemblage analysis</li> <li>Sediment core logging, description, curation and sampling</li> <li>Oxygen isotope stratigraphies for sediment cores</li> </ul>	October-Dec 2013	
	<ul> <li>M.A. Research, Columbia University</li> <li>Planktonic foraminifera isotope stratigraphies</li> <li>Elemental analysis (ICP-MS) of Mg/Ca ratios in foraminifera</li> <li>Coulometry to determine percent CaCO3 in marine sediments</li> <li>Spectrophotometry to determine percent opal in marine sediments</li> </ul>	2011-2013 ents	
	<ul> <li>Scientific Party, R/V Marcus G. Langseth (ML1208)</li> <li>Sediment coring, water sampling and geophysical surveying</li> <li>Core logging, description, curation and on-board sampling</li> <li>Oxygen isotope stratigraphies for sediment cores</li> </ul>	June 2012	
	<ul> <li>Honors Thesis, Macalester College Department of Geology</li> <li>Clay mineralogy analysis for ODP 1234 (Chilean margin)</li> <li>X-Ray diffractometry of marine sediments to infer weathering of the sediments of the sediment of</li></ul>	2010-2011 changes	
	<ul> <li>NSF REU, Lamont-Doherty Earth Observatory</li> <li>Research with Dr. Jerry McManus and Dr. Zohra Mokeddem</li> <li>Determining oxygen isotope ratios from foraminifera</li> <li>Reconstructing the history of ice rafted debris from ODP 1234</li> </ul>	Summer 2010	
	<ul><li>Summer Student Fellow, Woods Hole Oceanographic Institution</li><li>Research with Dr. Delia Oppo</li></ul>	Summer 2009	

	<ul> <li>Determining concentrations of organic biomarkers in marine segas chromatograph-mass spectrometer</li> <li>Tracing the history of ENSO-related upwelling during the Holdonesian Throughflow</li> </ul>	-
	<ul> <li>Research Project, San Salvador Island, Bahamas</li> <li>Comparative sedimentology of inland lakes, estuarine and beach</li> </ul>	January 2009 h environments
	<ul> <li>NSF REU, University of Texas at Austin</li> <li>Research with Dr. Terry Quinn</li> <li>Determining optimal axes for paleoclimatic reconstructions with skeletal geochemistry</li> <li>Sr/Ca paleothermometry</li> </ul>	Summer 2008
Teaching Experience	Teaching Assistant (TA): "Paleoclimatology"Guest Lecturer: "The Climate System"TA: "The Climate System"Fa: "Paleoclimatic and Tectonic Studies of Barbados"TA: "History and Evolution of the Earth"TA: "January Field Excursion: The Mojave Desert"TA: "Geomorphology"Writing Assistant: "Water Science and Policy"	Spring 2014 Spring 2014 Il 2012, Fall 2011 Spring 2012 Fall 2011 Spring 2011 Spring 2010 Fall 2009
Certifications	ENG1: International seafarers medical certification STCW 95: Personal Survival Techniques PADI SCUBA	2013 2013 2009
Computer Skills	Ocean Data View Adobe: Acrobat, Photoshop and Illustrator MS Office Suite ArcGIS Languages: MATLAB and R, some C++ and BASIC	
Awards	Lamont-Doherty Earth Observatory Climate Center Grant NSF Stable Isotope Course Fellowship NSF Urbino Paleoclimate Summer School Fellowship NSF Graduate Student Fellowship, Honorable Mention Columbia University Faculty Fellow Hugh S. Alexander Endowed Prize, Macalester College Barry M. Goldwater Scholarship	$2014 \\ 2014 \\ 2013 \\ 2012 \\ 2011 \\ 2011 \\ 2010$
First-Author Publications	<ul> <li>Jacobel, A.W., et al., 2010. Heinrich-like events in the Southeast Pacific: abrupt climate change during the last interglacial. EOS Transactions American Geophysical Union 91 (53), Fall Meet. Suppl., Abstract PP41B-1630.</li> <li>Jacobel, A.W., et al., 2009. The Indonesian Throughflow: Oceanographic Responses to Holocene Changes in the Mean Pacific State. EOS Transactions American Geophysical Union 90 (52), Fall Meet. Suppl., Abstract PP13D-1436.</li> <li>Jacobel, A.W., et al., 2008. Evaluating the effect of coral topography on the climate signal in porites spp. EOS Transactions American Geophysical Union 89 (53), Fall Meet. Suppl., Abstract PP23C-1505.</li> </ul>	
Community Participation	External: Stable Isotope Course: Student Urbino Paleoclimate Summer School: Student New York Academy of Sciences: Member Geochemical Society: Member American Geophysical Union: Member	Summer 2014 Summer 2013 2011-Present 2011-Present 2008-Present

2012-2013
2012-Present
2011-Present
Fall 2012, Fall 2011
Fall 2012, Fall 2011
Hernandez (Columbia,

Macalester College:

President/Vice-President of the Geology Club	2009-2011
Volunteer Earth Scientist: Tartan High School, Woodbury, MN	May 2011
Outreach Coordinator: Macalester Geology Club	2010-2011