

# Prajvala Kishore Kurtakoti

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CONTACT INFORMATION	Department of Oceanography Texas A&M University College Station, Tx 77843 USA	prajvala@tamu.edu
RESEARCH INTERESTS	Southern Ocean Dynamics, Ocean-Sea Ice Modeling, Numerical Modelling, Ocean Mixing, Stratified Fluid Dynamics, Internal Gravity Waves	
EDUCATION	<b>Department of Oceanography</b> Texas A&M University, College Station, Texas	
	<b>PhD.</b> , Oceanography	(Fall 2014 - present)
	<ul style="list-style-type: none"><li>• Topic: <i>Study high-latitude Southern Ocean representation in Coupled Earth System Models.</i> Advisor: Achim Stoessel, Ph.D</li></ul>	
	<b>Department of Physics and Physical Oceanography</b> Memorial University of Newfoundland, St. John's, CANADA	
	<b>M.Sc.</b> , Physical Oceanography	April 2014
	<ul style="list-style-type: none"><li>• Topic: <i>Study of the energetics of transmitted and reflected internal waves using laboratory experiments.</i> Advisor: James Munroe, Ph.D</li></ul>	
	<b>Amrita School of Engineering</b> Amrita Vishwa Vidyapeetham, Bangalore, INDIA	
	<b>B.Tech.</b> , Computer Science and Engineering	May 2008
RESEARCH EXPERIENCE	<b>Graduate Research Assistant</b> Los Alamos National Laboratory, New Mexico, USA. Supervisor: Milena Veneziani, Ph.D	February 2016 - August 2016
	<ul style="list-style-type: none"><li>• As part of my doctoral research, I worked in Los Alamos National Laboratory studying the formation mechanism of Weddell Sea Polynya in the Southern Ocean with the Climate, Ocean and Sea Ice Modeling (COSIM) group at LANL. The numerical simulations I analyze are results from a collaboration called Accelerated Climate Modeling for Energy, or ACME, and is born out of a need to advance the development and application of coupled, Earth system models for scientific and energy applications.</li></ul>	
	<b>Project Assistant</b> Centre for Atmospheric and Oceanic Sciences Indian Institute of Science. Supervisor: Debasis Sengupta, Ph.D	June 2008 - August 2011
	<ul style="list-style-type: none"><li>• Topic:</li><li>• I worked on a project to study the diurnal to Inter-annual Variability of Tropical Indian Ocean and Asian Monsoon. I examined the co-evolution of Atmospheric and Oceanic intra-seasonal variability during Indian Summer Monsoon season using observational and model data.</li><li>• Oceanographic Fieldwork: I participated in a 20 day cruise on the O.R.V. Sagar Kanya, a deep-sea ocean research vessel, as part of a multi-year study of the response of the upper ocean to tropical cyclones in the Bay of Bengal.</li></ul>	
JOURNAL PUBLICATIONS	1. Pandey, V. K., Kurtakoti, P. "Evaluation of GODAS using RAMA Mooring Observations from the Indian Ocean.", <i>Marine Geodesy</i> 37.1 (2014): 14-31.	

CONFERENCE PRESENTATIONS	1. Kurtakoti, P., Munroe, J. "Propagating and reflecting mode-1 internal waves analyzed using the Hilbert transform" <i>66th Annual Meeting of the American Physical Society Division of Fluid Dynamics, Pittsburgh, Pennsylvania</i> , November 23-26, 2013.
CONFERENCE POSTERS	1. Kurtakoti, P., Veneziani, M., Stoessel, A. and Weijer, W. "Preconditioning and Formation Mechanisms of Maud Rise (Open Ocean) Polynyas in a High-Resolution CESM Simulation" <i>AGU Fall Meeting, San Francisco, California</i> , December 12-16, 2016.
PROFESSIONAL DEVELOPMENT	1. 2015 CESM Tutorial, 8 - 14 August 2015, National Center for Atmospheric Research, Mesa Lab, Boulder, CO.
TEACHING EXPERIENCE	<p>Graduate Teaching Assistant <span style="float: right;">Fall 2015, Fall 2016, Spring 2017</span>  OCNG 252 – Introduction to Oceanography LAB  Department of Oceanography  Texas A&amp;M University</p> <p>Teaching Assistant <span style="float: right;">Fall 2011- Winter 2014</span>  Physics 1051 – General Physics LAB  Department of Physics and Physical Oceanography  Memorial University of Newfoundland</p> <p>Physics 1020 – General Physics LAB  Department of Physics and Physical Oceanography  Memorial University of Newfoundland</p>
VOLUNTEERING EXPERIENCE	<p>WISE Program Mentor <span style="float: right;">Summer 2012, Summer 2013</span>  Women In Science and Engineering NL, Canada</p> <p>Mentored high-achieving young high school female students who are interested in pursuing education and careers in STEM fields for a full 3.5 month period in the summer where they actively participate and assist me in my graduate research work.</p> <p>SHAD Valley 1 Day Workshop <span style="float: right;">July 2012, July 2013</span>  Shad Valley International, Canada</p> <p>Conducted a one-day Science workshop for Shad Valley. It is a Canadian summer enrichment program for gifted high school students.</p>
SCHOLARSHIPS	<p>Robert O. Reid Oceanography Fellowship <span style="float: right;">Fall 2016</span>  Texas A&amp;M University, USA</p> <p>SHARP Scholarship <span style="float: right;">Fall 2014</span>  Texas A&amp;M University, USA</p> <p>SGS Scholarship <span style="float: right;">Fall 2011 - Fall 2014</span>  Memorial University of Newfoundland, Canada</p>

COMPUTING  
SKILLS

Computer Programming

Python C, C++, Java, FORTRAN, UNIX shell scripting, and others

Mathematical Tools

Python, Ferret, NCL, GrADS, Solidworks , MATLAB, and others