

Prajvala Kishore Kurtakoti

CONTACT INFORMATION	www.prajvalakurtakoti.com Department of Oceanography Texas A&M University College Station 77843, TX	prajvala@tamu.edu
RESEARCH INTERESTS	Southern Ocean Dynamics, Ocean-Sea Ice Modeling, Numerical Modelling, Ocean Mixing, Stratified Fluid Dynamics, Internal Gravity Waves	
EDUCATION	Department of Oceanography Texas A&M University, College Station, TX PhD. , Oceanography Fall 2014 - present <ul style="list-style-type: none">• Topic: <i>Study high-latitude Southern Ocean representation in Coupled Earth System Models</i>. Advisor: Achim Stoessel, Ph.D Department of Physics and Physical Oceanography Memorial University of Newfoundland, St. John's, Canada M.Sc. , Physical Oceanography April 2014 <ul style="list-style-type: none">• Topic: <i>Study of the energetics of transmitted and reflected internal waves using laboratory experiments</i>. Advisor: James Munroe, Ph.D Amrita School of Engineering Amrita Vishwa Vidyapeetham, Bangalore, India B.Tech. , Computer Science and Engineering May 2008	
RESEARCH EXPERIENCE	Graduate Research Assistant May 2017 - December 2017 February 2016 - August 2016 Los Alamos National Laboratory, Los Alamos, NM. Supervisor: Milena Veneziani, Ph.D <ul style="list-style-type: none">• 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 Energy Exascale Earth System Modeling, or E3SM, and is born out of a need to advance the development and application of coupled, Earth system models for scientific and energy applications. Project Assistant June 2008 - August 2011 Centre for Atmospheric and Oceanic Sciences Indian Institute of Science. Supervisor: Debasis Sengupta, Ph.D <ul style="list-style-type: none">• Topic:• 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.• 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.	

JOURNAL PUBLICATIONS	<ol style="list-style-type: none"> 1. Kurtakoti, P, Veneziani, M, Stoessel, A, Weijer, W (2018). “Preconditioning and Formation Mechanisms of Open-Ocean Polynyas in a High-Resolution Community Earth System Model. <i>Manuscript in revision</i>. 2. 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	<ol style="list-style-type: none"> 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. 2. Kurtakoti, P., Veneziani, M, Stoessel, A, Weijer, W. “Preconditioning and formation mechanisms of Maud Rise (open ocean) Polynyas in a high-resolution CESM” <i>22nd Annual CESM Workshop, Boulder, Colorado</i>, June 19 - 22, 2017. 																										
CONFERENCE POSTERS	<ol style="list-style-type: none"> 1. Kurtakoti, P., Veneziani, M., Stoessel, A. and Weijer, W. “Great Weddell Sea Polynyas: Mechanisms for their Genesis and Cessation in a High-Resolution Earth System Model” <i>Ocean Sciences Meeting, Portland, Oregon</i>, February 11-16, 2018. 2. 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	<ol style="list-style-type: none"> 1. 2015 Community Earth System Model (CESM) Tutorial, August 8 - 14, 2015, National Center for Atmospheric Research, Mesa Lab, Boulder, CO. 2. Python for Scientists and Engineers, Enthought tutorial, October 2-6, 2017, Los Alamos, NM. 																										
TEACHING EXPERIENCE	<table border="0" style="width: 100%;"> <tr> <td style="width: 60%;">Graduate Teaching Assistant</td> <td style="text-align: right;">Spring 2017 Fall 2016 Fall 2015</td> </tr> <tr> <td colspan="2">OCNG 252 – Introduction to Oceanography LAB</td> </tr> <tr> <td colspan="2">Department of Oceanography</td> </tr> <tr> <td colspan="2">Texas A&M University</td> </tr> <tr> <td colspan="2"> </td> </tr> <tr> <td>Teaching Assistant</td> <td style="text-align: right;">Fall 2011- Winter 2014</td> </tr> <tr> <td colspan="2">Physics 1051 – General Physics LAB</td> </tr> <tr> <td colspan="2">Department of Physics and Physical Oceanography</td> </tr> <tr> <td colspan="2">Memorial University of Newfoundland</td> </tr> <tr> <td colspan="2"> </td> </tr> <tr> <td colspan="2">Physics 1020 – General Physics LAB</td> </tr> <tr> <td colspan="2">Department of Physics and Physical Oceanography</td> </tr> <tr> <td colspan="2">Memorial University of Newfoundland</td> </tr> </table>	Graduate Teaching Assistant	Spring 2017 Fall 2016 Fall 2015	OCNG 252 – Introduction to Oceanography LAB		Department of Oceanography		Texas A&M University				Teaching Assistant	Fall 2011- Winter 2014	Physics 1051 – General Physics LAB		Department of Physics and Physical Oceanography		Memorial University of Newfoundland				Physics 1020 – General Physics LAB		Department of Physics and Physical Oceanography		Memorial University of Newfoundland	
Graduate Teaching Assistant	Spring 2017 Fall 2016 Fall 2015																										
OCNG 252 – Introduction to Oceanography LAB																											
Department of Oceanography																											
Texas A&M University																											
Teaching Assistant	Fall 2011- Winter 2014																										
Physics 1051 – General Physics LAB																											
Department of Physics and Physical Oceanography																											
Memorial University of Newfoundland																											
Physics 1020 – General Physics LAB																											
Department of Physics and Physical Oceanography																											
Memorial University of Newfoundland																											
VOLUNTEERING EXPERIENCE	<table border="0" style="width: 100%;"> <tr> <td style="width: 60%;">WISE Program Mentor</td> <td style="text-align: right;">Summer 2012 Summer 2013</td> </tr> <tr> <td colspan="2">Women In Science and Engineering NL, Canada</td> </tr> <tr> <td colspan="2"> </td> </tr> <tr> <td colspan="2">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.</td> </tr> </table>	WISE Program Mentor	Summer 2012 Summer 2013	Women In Science and Engineering NL, Canada				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.																			
WISE Program Mentor	Summer 2012 Summer 2013																										
Women In Science and Engineering NL, Canada																											
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.																											

SHAD Valley 1-Day Workshop
Shad Valley International, Canada

July 2012, July 2013

Conducted a one-day Science workshop for Shad Valley. It is a Canadian summer enrichment program for gifted high school students.

SCHOLARSHIPS

SHARP Scholarship
Texas A&M University, USA

Fall 2018, Fall 2017

Robert O. Reid Oceanography Fellowship
Texas A&M University, USA

Fall 2016

SHARP Scholarship
Texas A&M University, USA

Fall 2014

SGS Scholarship
Memorial University of Newfoundland, Canada

Fall 2011 - Fall 2014

COMPUTING
SKILLS

Computer Programming
Python C, C++, Java, FORTRAN, UNIX shell scripting, and others
Mathematical Tools
Python, Ferret, NCL, GrADS, Solidworks , MATLAB, and others