## Georgy E Manucharyan

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EDUCATION	Ph.D., Atmosphere Ocean and Climate Dynamics,201Department of Geology & Geophysics, Yale University, USA	
	B.S. with Honors in Applied Physics and Mathematics,200Department of Aerophysics and Space Research,200Moscow Institute of Physics and Technology, Russia.200	
RESEARCH EXPERIENCE	<ul> <li>Graduate Research Fellow, Yale University 2008-2019</li> <li>PhD thesis: "The role of upper-ocean mixing in large-scale ocean and climate dynamics".</li> <li>M. Phil thesis: "Ocean's Response to Tropical Cyclones".</li> <li>Advisor: Alexey V Fedorov, Yale University</li> </ul>	
	<ul> <li>CLIVAR Carbon and Hydrographic Oceanography Cruise 201.</li> <li>R/V Melville, Section PO2, Pacific Ocean.</li> <li>Research topics: <i>"Reconstruction of Oceanic Quasi-Geostrophic Currents"</i> and <i>"Oceanic Mixed Layer Turbulence from ADCP Measurements"</i>.</li> <li>Collaborators: Sabine Mecking and Gunnar Voet, University of Washington.</li> </ul>	
	• Yale School of Engineering and Applied Science, Yale University 2017 Research Topic: "Markov Chain Representation of Chaotic Dynamical Systems". Advisor: Mohamed Ali Belabbas, University of Illinois at Urbana-Champaign.	
	• Geophysical Fluid Dynamics Independent Research Group 2010 - 2019 Depts of Applied Mathematics and Geology & Geophisics, Yale University. Research topic: "Steady rotating density currents on a slope".	
	Geophysical Fluid Dynamics Summer School at WHOI – Fellow 2019 Research topic: "Dynamics of the Mixed Layers in Stratied Sheared Flows". Advisor: Colm-cille Caulfield, University of Cambridge.	
	<ul> <li>Shirshov Institute of Oceanology, Moscow, Russia - Research Assistant</li> <li>2005-200</li> <li>Research topic: "Ocean Data Assimilation Techniques".</li> <li>Advisor: Mikhail Koshlyakov, Shirshov Institute of Oceanology.</li> </ul>	
PUBLICATIONS	• Manucharyan G.E. & A.V. Fedorov (2014), Robust ENSO across a wide range of climates <i>Journal of Climate</i> (accepted)	
	• Manucharyan G.E., W. Moon, F. Sévellec, A.J. Wells, JQ. Zhong, & J.S. Wettlaufe (2014), Steady turbulent density currents on a slope in a rotating fluid, <i>Journal of Flui Mechanics</i> , Vol 746, pp 405–436.	
	• Manucharyan G.E. & ML. Timmermans (2013), Generation and separation of mesoscale eddies from surface ocean fronts, <i>Journal of Physical Oceanography</i> , 43, 2545–2562.	
	• Manucharyan G.E., C.M. Brierley, & A.V. Fedorov (2011), Climate impacts of intermittent upper ocean mixing induced by tropical cyclones, <i>Journal of Geophysical Research</i> , 116, C11038, doi:10.1029/2011JC007295.	
	• Manucharyan G.E. (2010), Dynamics of the Mixed Layers in Stratified Shear Flows, WHO	

• Manucharyan G.E. (2010), Dynamics of the Mixed Layers in Stratified Shear Flows, WHOI GFD Summer School, Ann. Proc. Vol. 2010, pp 240–259.

In preparation (drafts available upon request)

• Manucharyan G.E. & A.V. Fedorov, Impacts of tropical cyclones' vorticity forcing on large-scale oceanic circulation, in prep. for *Journal of Physical Oceanography* 

• Manucharyan G.E. & A.V. Fedorov, Walker circulation response to changing east-west SST gradient, in prep. for *Journal of Climate* 

• Manucharyan G.E. & C.P. Caulfield, Entrainment and mixing dynamics of surface-stressdriven linearly stratified flow in a cylinder, in preparation for *Journal of Fluid Mechanics*.

TEACHING EXPERIENCE	<ul><li>Yale University</li><li>Introduction to Concepts in Geology &amp; Geophysics – Guest Lecturer</li></ul>	2013
	• Asymptotic Methods – Guest Lecturer	2012
	• Physics of Weather and Climate – Teaching Assistant.	2012
	• Physical Oceanography – Teaching Assistant, Guest Lecturer	2010,11,13,14
	• Atmosphere, Ocean, and Environmental Change – Laboratory Instructor	r. 2009
	<ul> <li>Physics &amp; Technology Evening High School, Dolgoprudny, Russia</li> <li>Advanced Mathematics – Instructor.</li> </ul>	2007-2008
	<ul> <li>Physics, Mathematics – Teaching Assistant.</li> </ul>	2004-2005
FELLOWSHIPS & AWARDS	Weston Howland Jr. Postdoctoral Scholar, Woods Hole Oceanographic Institu	ution 2014
	Philip M. Orville Prize "For recognition of outstanding research and scholarship in the Earth Sciences", Yale University	2014
	Elias Loomis Prize for <i>"Excellence in Studies of Physics of the Earth"</i> , Department of Geology and Geophysics, Yale University.	2011
	Charlton Dows Cooksey Jr. Memorial Fellowship, Yale University.	2010-2012
	Geophysical Fluid Dynamics Fellowship, WHOI	Summer 2010
	Bateman Fellowship, Yale University.	2008
	Diploma with Honors in Applied Physics and Mathematics, Moscow Institute of Physics and Technology, Dolgoprudny, Russia	2007
	Full Undergraduate Scholarship Moscow Institute of Physics and Technology, Dolgoprudny, Russia	2003-2007
	Conference on Atmospheric and Oceanic Fluid Dynamics, Newport, RI Title: "Generation and Separation of Mesoscale Eddies from Surface Ocean Fr	2013 onts".
	65 <sup>th</sup> annual meeting of APS, Division of Fluid Dynamics, San Diego, CA Titles: "Entrainment and Mixing Dynamics of Surface-Stress-Driven Linearly Stratified Flow in a Cylinder"; "Steady Rotating Density Currents on a Slope	2012 ".
	American Geophysical Union Fall Meeting, San Francisco, CA Title: "Global Impacts of Intermittent Mixing Induced by Tropical Cyclones".	2011
	Geophysical Fluid Dynamics Summer School, WHOI, Woods Hole, MA.	2009-2012
	Fundamental Problems in Climate Dynamics, Princeton Center for Theoretical Science, Princeton, NJ.	2009
COLLABO- RATORS	Alexey Fedorov (Yale), Mary-Louise Timmermans (Yale), Andrew Wells (O Wettlaufer (Yale, Oxford), Colm-cille Caulfield (Cambridge), Jin-Qiang Zhong Woosok Moon (Cambridge), Gunnar Voet (U. Washington), Florian Sévellec (U ton), Chris Brierley (U. College London), Sabine Mecking (U. Washington).	g (Tongji U.),