Woods Hole Oceanographic Institution, 266 Woods Hole Road,
MS #21, Clark 332
Woods Hole, MA, USA 02543.

+1 (617) 949-0908
dcherian@whoi.edu
http://cherian.mit.edu

Deepak A. Cherian

Education

2016: Ph.D., MIT-WHOI Joint Program in Oceanography
Dissertation: When an eddy encounters shelf-slope topography.
Advisor: Kenneth H. Brink.

2010: M.Tech., Ocean Engineering, Indian Institute of Technology, Kharagpur.

2010: B.Tech. (Hons.), Ocean Engineering & Naval Architecture,
Indian Institute of Technology, Kharagpur.

Positions

2017 Jan – Present: Research Associate (Post-Doc), Oregon State University

2016 Sep–2017 Jan: Postdoctoral Investigator, Woods Hole Oceanographic Institution

2010–2016: Graduate research assistant, MIT & WHOI

2009 May–July: Research intern, Earth and Planetary Sciences,
John Hopkins University

2008 May–July: Research intern, Center for Ocean-Atmosphere Prediction Studies,
Florida State University

2007 May–July: Research intern, National Institute of Oceanography, Goa, India

Articles

in progress

Cherian, D.A., Farrar, J.T. and Durland, T.S. (in prep.) "The upper-ocean vertical structure of 7-day period inertial-gravity waves in the equatorial Pacific."

Cherian, D.A. and Brink, K.H. (in prep.) "The forcing of sloping shelves by an anticyclone at the shelfbreak"

Cherian, D.A. (in revision) "Arresting an anticyclone's cross-isobath translation.", *Journal of Physical Oceanography*

2016

Cherian, D.A. and Brink, K.H. (2016) "Offshore Transport of Shelf Water by Deep-Ocean Eddies.", *Journal of Physical Oceanography* 46 (12): 3599–3621
http://dx.doi.org/10.1175/JPO-D-16-0085.1

2013

Brink, K.H. and Cherian, D.A. "Instability of an idealized tidal mixing front: Symmetric instabilities and frictional effects."
Journal of Marine Research 71 (6): 425–450.

Haine, T.W.N. and Cherian, D.A. "Analogies of Ocean/Atmosphere Rotating Fluid Dynamics with Gyroscopes: Teaching Opportunities."
Bull. Amer. Meteor. Soc. 94: 673–684.

Talks

2016 Oct: "Arresting an eddy's cross-isobath translation."
Physics of the Ocean and Atmosphere Seminar,
College of Earth, Ocean and Atmospheric Sciences,
Oregon State University, Corvallis, OR

2016 Aug: "When an eddy encounters shelf-slope topography."
Department Seminar, Center for Atmospheric and Oceanic Sciences,
Indian Institute of Science, Bengaluru, India

2016 Mar: "Eddy vs. shelf-slope topography."
MIT Sack Lunch Seminar, Cambridge, MA.

2016 Feb: "How eddies at the shelfbreak permanently export shelf water."
AGU Ocean Sciences Meeting, New Orleans, LA.

2015 June: "Cross-isobath motion of eddies across slopes."
Gordon Research Seminar, Coastal Ocean Modeling, Biddeford, ME.

Posters

2015 June: "Cross-isobath motion of eddies across slopes."
Gordon Research Conference, Coastal Ocean Modeling, Biddeford.

2013 June: "Dynamics of the flood tide jet through Cattle Pass."
Gordon Research Conference, Coastal Ocean Circulation, Biddeford.

Fieldwork

2014 July: *R/V Tioga*, off Martha's Vineyard — Helped create cruise plan. Programmed CTDs and ADCP. Deployed and recovered miniBAT (towed body), mooring, ADCP and surface drifters.

2013 Nov: *R/V Roger Revelle*, Bay of Bengal — Deployed and recovered underway CTDs (uCTDs).

2011 July: *SSV Corwith Cramer*, Mid-Atlantic Bight — CTD and plankton net deployments.

Additional Training

2014: Coastal and Estuarine Field Methods Summer School,
Woods Hole Oceanographic Institution

2013: Teaching Certificate Program, Massachusetts Institute of Technology

2012: Estuarine and Coastal Fluid Dynamics Summer School,
University of Washington Friday Harbor Laboratories

Awards

2010 Institute Silver Medal, Indian Institute of Technology, Kharagpur.

2008 Hem Raut Award, Indian Institute of Technology, Kharagpur.

Teaching

2014 Fall semester: Teaching Assistant, "Observational Physical Oceanography" (graduate level course), MIT & WHOI.

2013 Jan: Lecturer, "Physical Oceanography", WHOI Winter Semester for Undergraduates.

2012 Jan: Teaching Assistant, "Physical Oceanography", WHOI - British Petroleum (BP) course.

Outreach & Service

Reviewer for Geophysical Research Letters, Journal of Marine Research.

Conducted rotating tank lab demonstrations for broad audience (public, scientists, students — graduate and K-12) at WHOI GFD Open Days, 2013.