





College of Earth, Ocean and Atmospheric Sciences
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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.) “Shelf flows forced by an anticyclone at the shelfbreak”
 - 2016**
Cherian, D.A. and Brink, K.H. “Offshore Transport of Shelf Water by Deep-Ocean Eddies.”, *Journal of Physical Oceanography* 46 (12): 3599–3621

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 and
Posters

“Shelf flows forced by mesoscale eddies at the shelfbreak”

Presented at Gordon Research Seminar and Conference - Coastal Ocean Dynamics (2017)

“Offshore export of shelf water by deep ocean eddies”

Presented at Oregon State University, National University of Taiwan, Indian Institute of Science and AGU Ocean Sciences Meeting (2016)

“Arresting an eddy’s cross-isobath translation”

Presented at Oregon State University, Massachusetts Institute of Technology and Gordon Research Conference and Seminar - Coastal Ocean Modeling (2015)

Fieldwork

2017 Feb: *R/V Roger Revelle*, South China Sea, programmed and deployed underway CTDs, helped recover Slocum gliders

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 for highest ranked graduate in department.

2008 Hem Raut Award, Indian Institute of Technology, Kharagpur for highest ranked student in department.

Teaching

2017 Winter Term: Guest Lecture for “Geophysical Waves” ,
Oregon State University

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 and Journal of Physical Oceanography.

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