

## DEEPAK A. CHERIAN

- Education**
- 2016: Ph.D., MIT-WHOI Joint Program in Oceanography, Physical Oceanography  
Dissertation: When an eddy encounters shelf-slope topography.
  - 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, Massachusetts Institute of Technology  
& Woods Hole Oceanographic Institution
  - 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**
- Cherian, D.A.** and Brink, K.H. “Shelf flows forced by deep-ocean anticyclonic eddies at the shelfbreak” (in revision). Journal of Physical Oceanography.
  - 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
  - Brink, K.H. and **Cherian, D.A.** (2013) “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.** (2013) “Analogies of Ocean/Atmosphere Rotating Fluid Dynamics with Gyroscopes: Teaching Opportunities.”  
Bull. Amer. Meteor. Soc. 94: 673–684.
  - Cherian, D.A.**, Farrar, J.T. and Durland, T.S. (in prep., available on request)  
“The upper-ocean vertical structure of 7-day period inertial-gravity waves in the equatorial Pacific.”

**Talks &  
Posters**

- 2018 Feb: “Turbulent mixing (and lack thereof) in the Bay of Bengal” (Talk)  
2018 Ocean Sciences Meeting, Portland.
- 2017 Jun: “Shelf-flows forced by deep-ocean eddies at the shelfbreak” (Poster)  
Gordon Research Seminar & Conference, Coastal Ocean Dynamics.
- 2017 Mar: “Offshore export of shelf water by deep-ocean eddies”  
Physics of the Ocean and Atmosphere Seminar,  
College of Earth, Ocean and Atmospheric Sciences, Oregon State University.
- 2017 Feb: “Offshore export of shelf water by deep-ocean eddies”  
Institute of Oceanography, National University of Taiwan.
- 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.
- 2016 Aug: “When an eddy encounters shelf-slope topography.”  
Department Seminar, Center for Atmospheric and Oceanic Sciences,  
Indian Institute of Science.
- 2016 Mar: “Eddy vs. shelf-slope topography.”  
Sack Lunch Seminar, Massachusetts Institute of Technology.
- 2016 Feb: “How eddies at the shelfbreak permanently export shelf water.” (Talk)  
2016 Ocean Sciences Meeting, New Orleans.
- 2015 June: “Cross-isobath motion of eddies across slopes.” (Talk, Poster)  
Gordon Research Seminar & Conference, Coastal Ocean Modeling.
- 2013 June: “Dynamics of the flood tide jet through Cattle Pass.” (Poster)  
Gordon Research Conference, Coastal Ocean Circulation

**Teaching**

- 2017 Winter Term: Guest Lecture for “Geophysical Waves” ,  
(graduate level course), Oregon State University
- 2014 Fall semester: Teaching Assistant, “Observational Physical Oceanography”  
(graduate level course), Massachusetts Institute of Technology.
- 2013 Jan: Lecturer, Four lectures on “Physical Oceanography”,  
WHOI Winter Semester for Undergraduates  
(aimed at students from liberal arts colleges).
- 2012 Jan: Teaching Assistant, “Physical Oceanography”,  
WHOI - British Petroleum course.

<b>Outreach &amp; Service</b>	<p>Reviewer for Geophysical Research Letters (1), Journal of Geophysical Research - Oceans (1), Journal of Marine Research (1) and Journal of Physical Oceanography (2).</p> <p>Conducted rotating tank lab demonstrations for broad audience (public, scientists, students — graduate and K-12) at WHOI GFD Open Days, 2013.</p>
<b>Additional Training</b>	<p>2014 Coastal and Estuarine Field Methods Summer School, Woods Hole Oceanographic Institution</p> <p>2013 Teaching Certificate Program, Massachusetts Institute of Technology</p> <p>2012 Estuarine and Coastal Fluid Dynamics Summer School, University of Washington Friday Harbor Laboratories</p>
<b>Awards</b>	<p>2010 Institute Silver Medal, Indian Institute of Technology, Kharagpur for exceptional academic performance in department.</p> <p>2008 Hem Raut Award, Indian Institute of Technology, Kharagpur for exceptional academic performance in department.</p>
<b>Fieldwork</b>	<p>2017 Feb: <i>R/V Roger Revelle</i>, South China Sea. PI: Lou St-Laurent (WHOI)</p> <p>2014 July: <i>R/V Tioga</i>, off Martha's Vineyard. (student-run cruise for summer school) PI: Deepak Cherian, Jonathan Fincke, Cara Manning (WHOI).</p> <p>2013 Nov: <i>R/V Roger Revelle</i>, Bay of Bengal. PI: Emily Shroyer (OSU)</p> <p>2011 July: <i>SSV Corwith Cramer</i>, Middle Atlantic Bight. PI: Donglai Gong (WHOI)</p>
<b>References</b>	<p>Dr. Kenneth Brink (WHOI, thesis advisor)</p> <p>Prof. Emily Shroyer (OSU, postdoctoral advisor)</p> <p>Dr. Steve Lentz (WHOI, thesis committee member)</p> <p>Prof. James Moum (OSU, postdoctoral co-advisor)</p> <p>Prof. James Yoder (URI, teaching reference)</p>