

# SEAN HANEY

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## EDUCATION

- Ph.D. Candidate, Atmospheric and Oceanic Sciences**, University of Colorado at Boulder. Comprehensive Exam I passed Jan 2012, Comprehensive Exam II passed Aug 2012, Est. graduation 2015.
- 2010–**
- 2005–2009 B.S. Mathematics**, University of California, Santa Barbara

## FELLOWSHIP AWARDS

- 2012 Cooperative Institute for Research in the Environmental Sciences (CIRES):** Graduate Student Research Fellowship. *Graduate level merit fellowship, 50%.*

## RESEARCH EXPERIENCE

- 2011– Graduate Researcher:** CIRES (Boulder, Colorado), under B. Fox-Kemper, UCB Dept. of Atmospheric and Oceanic Sciences. *Studying three-dimensional turbulent process that affect the ocean mixed layer.*
- 2011 Student:** Community Earth System Model (CESM) Tutorial, National Center for Atmospheric Research (NCAR) Mesa Lab, Boulder, CO. *August 1-5.*
- 2009–2010 Staff Research Associate II:** Scripps Institution of Oceanography (La Jolla, CA), under B. Cornuelle. *Analysis of the California State Estimate (CASE), a data assimilation project of the California current system.*
- 2007 Undergraduate Researcher:** University of California, Santa Barbara, under S. James Allen, Institute for Terahertz Science and Technology. *Testing a terahertz detector with a free electron laser.*
- 2006 Undergraduate Researcher:** University of California, San Diego, under R. Rothschild, Center for Astrophysics and Space Sciences. *Analysis of data collected by the PCA and HEXTE x-ray detectors.*

## TEACHING EXPERIENCE

- 2010-2012 Teaching Assistant:** University of Colorado at Boulder, Undergraduate classes for Dept. Atmospheric and Oceanic Sciences. *Lectured for lab sections, and assisted with lecture courses.*
- 2008-2009 Mathematics/Physics Tutor:** University of California, Santa Barbara (Santa Barbara, California), under D. Kiplagat, Campus Learning Assistance Services. *Undergraduate mathematics and physics tutor.*

## SERVICE EXPERIENCE

- 2012– Member:** ATOC, Curriculum Committee. *Review and update the ATOC curriculum.*
- 2012 Judge:** Corden Pharma Colorado Regional Science Fair, Boulder Valley School District. *February 28, 2012.*

**Reviewer for** *Journal of Climate.*

## PUBLICATIONS

- S. Haney**, S. Bachman, B. Cooper, S. Kupper, K. McCaffrey, L. Van Roekel, S. Stevenson, B. Fox-Kemper, R. Ferrari, Hurricane wake restratification rates of 1, 2 and 3-dimensional processes: 2013. *Journal of Marine Research*, In Press.
- L. P. Van Roekel, B. Fox-Kemper, P. P. Sullivan, P. E. Hamlington, and **S. R. Haney** , The form and orientation of Langmuir Cells for misaligned winds and waves: 2012. *Journal of Geophysical Research-Oceans*, **117**:C05001, 22pp. URL <http://dx.doi.org/10.1029/2011JC007516>.

## PRESENTATIONS AND POSTERS

- S. Haney**, B. Fox-Kemper, K. Julien, 2013: Instabilities in the Stratified, Wave-Forced Ocean Mixed Layer. *19th Conference on Atmospheric and Oceanic Fluid Dynamics, Poster Session*, Newport, Rhode Island, June 17-21.
- S. Haney**, B. Fox-Kemper, K. Julien, 2013: Instabilities in the Stratified, Wave-Forced Ocean Mixed Layer. *33rd Center for Nonlinear Studies (CNLS) Annual Conference: Ocean Turbulence, Poster Session*, Santa Fe, New Mexico, June 3-7.
- S. Haney**, B. Fox-Kemper, S. Bachman, B. Cooper, S. Kupper, K. McCaffrey, S. Stevenson, L. Van Roekel, A. Webb, R. Ferrari, 2012: Hurricane Wake Restratification Mechanisms. *CIRES Rendezvous 2012 Poster Session*, Boulder, Colorado, April 24<sup>th</sup>.
- S. Haney**, B. Fox-Kemper, S. Bachman, B. Cooper, S. Kupper, K. McCaffrey, S. Stevenson, L. Van Roekel, A. Webb, R. Ferrari, 2012: Hurricane Wake Restratification Mechanisms. *American Geophysical Union Ocean Sciences Meeting 2012*, Salt Lake City, Utah, February 20-24.

## OTHER INFORMATION

Member of American Geophysical Union

Languages: English, Fortran, MATLAB, L<sup>A</sup>T<sub>E</sub>X, UNIX

Last updated July 1, 2013