

## Anna C. Savage

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CONTACT INFORMATION	Keck Hall 8851 Shellback Way La Jolla, CA 92037	<i>E-mail:</i> savagea@ucsd.edu <i>Website:</i> annasavage.github.io
RESEARCH INTERESTS	Internal gravity waves, internal tides, near inertial waves, ocean mixing, geophysical fluid dynamics, and tidal aliasing in satellite altimetry	
EDUCATION	<p><b>University of Michigan</b>, Ann Arbor, MI <i>Ph.D.</i>, Applied Physics Program, Advisor: Brian Arbic <i>Thesis: Sea surface height signatures of internal gravity waves</i> 2011-2017</p> <p><b>Kalamazoo College</b>, Kalamazoo, MI <i>B.A.</i>, Physics Major with Applied Math and Studio Art Minors <i>Thesis: Analysis of chaotic network dynamics to determine the physical connectivity within neuronal networks-honors</i> 2007-2011</p> <p><b>Université de Strasbourg</b>, Strasbourg, France Study Abroad 2009-2010</p>	
RESEARCH AND FIELD EXPERIENCE	<ul style="list-style-type: none"><li>• <b>Post-doctoral scholar (current)</b> Co-advised by Jen MacKinnon, Amy Waterhouse, Sam Kelly Scripps Institution of Oceanography, San Diego, CA 2017-present</li><li>• <b>NASA Earth and Space Science Fellowship</b> Graduate research fellow with Brian Arbic University of Michigan, Ann Arbor, MI 2016-2017</li><li>• <b>Inner shelf cruise</b> (R/V Sally Ride): part of Office of Naval Research Inner Shelf Direct Research Initiative internal waves, headland eddies, Californian coastal dynamics September 2017</li><li>• <b>Gulf of Mexico Cruise</b> (R/V Pelican): associated with Consortium for Coastal and River-Dominated Ecosystems (CONCORDE), river plume surveys, wind-driven mixing, tidal-driven mixing April 2016</li><li>• <b>Equatorial Pacific Cruise</b> (R/V Oceanus): tropical instability waves, Equatorial undercurrent, hydrothermic ventilation, Equatorial cold tongue November 2014</li><li>• <b>NSF Research Experience for Undergraduates</b> Biophysics Department University of Michigan, Ann Arbor, MI Summer 2010</li></ul>	
PUBLICATIONS	<ul style="list-style-type: none"><li>• Warner, S. J., R. M. Holmes, E. H. M. Hawkins, M. Hoecker-Martinez, A. C. Savage, J. N. Moum (2018) Buoyant gravity currents released from tropical instability waves, <i>Journal of Physical Oceanography</i>, doi:10.1175/JPO-D-17-0144.1.</li></ul>	

- **Savage, A. C.**, B. K. Arbic, J. G. Richman, J. F. Shriver, M. H. Alford, M. C. Buijsman, J. T. Farrar, H. Sharma, G. Voet, A. J. Wallcraft, and L. Zamudio (2017), Frequency content of sea surface height variability from internal gravity waves to mesoscale eddies, *J. Geophys. Res. Oceans*, 122, doi:10.1002/2016JC012331.
- **Savage, A. C.**, B. K. Arbic, M. H. Alford, J. K. Ansong, J. T. Farrar, D. Menemenlis, A. K. O'Rourke, J. G. Richman, J. F. Shriver, G. Voet, A. J. Wallcraft, and L. Zamudio (2017), Spectral decomposition of internal gravity wave sea surface height in global models, *J. Geophys. Res. Oceans*, doi:10.1002/2017JC013009.

#### POSTERS AND PRESENTATIONS

- Noncoherence of low mode internal tides in the Tasman Sea (invited)  
AGU Ocean Sciences Meeting, Portland, OR February 2018
- Sea surface height signatures of internal gravity waves and  
implications for swath altimetry  
AGU Ocean Sciences Meeting, Portland, OR February 2018
- Sea surface signatures of internal gravity waves  
CASPO Seminar, Scripps Institution of Oceanography, San Diego, CA March 2017
- Sea surface height variability from internal gravity waves  
to mesoscale eddies and effects on satellite altimetry.  
Physical Oceanography Dissertation Symposium, Honolulu, HI October 2016
- Sea surface height signatures of internal gravity waves  
POA Seminar, Oregon State University, Corvallis, OR October 2016
- Internal gravity wave contributions to sea-surface variability.  
AGU Ocean Sciences Meeting, New Orleans, LA February 2016
- Wavenumber Spectral Exercises with HYCOM  
and the SWOT Ocean Simulator.  
SWOT Science Definition Team Meeting, Toulouse, France July 2015
- High Frequency Tests in the Surface Water  
and Ocean Topography (SWOT) Ocean Simulator.  
SWOT Science Definition Team Meeting, La Jolla, California January 2015
- Analysis of tidal aliasing using tide gauges and an eddying  
global ocean model with embedded tides (poster).  
AGU Ocean Sciences Meeting, Honolulu, HI February 2014
- Comparison of sea surface height in tide gauges and  
high-resolution ocean simulations with embedded tides.  
Layered Ocean Model Meeting, Ann Arbor, MI June 2013

#### TEACHING AND OUTREACH

- Graduate Student Instructor  
University of Michigan Physics Department  
University of Michigan, Ann Arbor, MI Winter 2016
- Organizing committee member  
APS Conference for Undergraduate Women in Physics  
University of Michigan, Ann Arbor, MI January 2015
- Lead organizer for Society for Women in Physics Demo Day  
Slauson Middle School, Ann Arbor, MI February 2014

- Calculus and physics teaching assistant  
Mathematics and Physics Departments  
Kalamazoo College, Kalamazoo, MI 2008-2011
- Student community organizer  
Vine Neighborhood Association  
Kalamazoo, MI Spring 2008