Anna C. Savage

CONTACT INFORMATION	250 Keck Hall 8851 Shellback Way La Jolla, CA 92037	$ \begin{array}{ll} \textit{E-mail:} & a4savage@ucsd.edu\\ \textit{Website:} & annasavage.github.io \end{array} $
Research Interests	Internal gravity waves, internal tides, near-inertial waves, mesoscale and submesoscale eddies, ocean mixing, geophysical fluid dynamics, and internal wave in satellite altimetry	
EDUCATION		
	University of Michigan, Ann Arbor, MI Ph.D., Applied Physics Program, Advisor: Bria Thesis: Sea surface height signatures of internal	
	Kalamazoo College, Kalamazoo, MI B.A., Physics Major with Applied Math and S Thesis: Analysis of chaotic network dynamics to determine the physical connectivity within n	
	Université de Strasbourg, Strasbourg, France Study Abroad	2009-2010
RESEARCH AND FIELD EXPERIENCE	• Post-doctoral scholar (current) Co-advised by Amy Waterhouse, Sam Ke Scripps Institution of Oceanography, San	
	• Graduate research assistant Advised by Brian Arbic University of Michigan, Ann Arbor, MI	2012-2017
	• NISKINe Pilot Cruise (R/V Neil Arm Office of Naval Research NISKINe Direct near-inertial internal waves, interactions	Research Initiative
	• Inner Shelf Cruise (R/V Sally Ride): p Office of Naval Research Inner Shelf Dire internal waves, headland eddies, California	ct Research Initiative
	• Gulf of Mexico Cruise (R/V Pelican): Consortium for Coastal and River-Domin river plume surveys, wind-driven mixing,	ated Ecosystems (CONCORDE),
	• Equatorial Pacific Cruise (R/V Ocean instability waves, Equatorial undercurren hydrothermic ventilation, Equatorial cold	t,

• NSF Research Experience for Undergraduates

Summer 2010

Biophysics Department University of Michigan, Ann Arbor, MI

TEACHING AND MENTORING

Teaching

Graduate Student Instructor
 University of Michigan Physics Department
 University of Michigan, Ann Arbor, MI

Winter 2016

Physics teaching assistant
 Physics Department
 Kalamazoo College, Kalamazoo, MI

2008-2011

• Calculus teaching assistant Mathematics Department Kalamazoo College, Kalamazoo, MI

2010-2011

Mentoring

• Ji Ye (undergraduate at University of Michigan)

2017-2018

• Hari Sharma (high school student)

Summer 2014

Honors and Awards

• NASA Earth and Space Science Fellowship

2017-2018

• Honors on undergraduate Senior Individualized Project

2011

PUBLICATIONS

- Arbic, B. K., M. H. Alford, J. K. Ansong, M. C. Buijsman, R. B. Ciotti, J. T. Farrar, R. W. Hallberg, C. E. Henze, C. N. Hill, C. A. Luecke, D. Menemenlis, E. J. Metzger, M. Müller, A. D. Nelson, B. C. Nelson, H. E. Ngodock, R. M. Ponte, J. G. Richman, A. C. Savage, R. B. Scott, J. F. Shriver, H. L. Simmons, I. Souopgui, P. G. Timko, A. J. Wallcraft, L. Zamudio, and Z. Zhao, 2018: A primer on global internal tide and internal gravity wave continuum modeling in HYCOM and MITgcm. In "New Frontiers in Operational Oceanography", E. Chassignet, A. Pascual, J. Tintoré, and J. Verron, Eds., GODAE Ocean View, 307–392, doi:10.17125/gov2018.ch13.
- 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,
 Journal of Physical Oceanography, doi:10.1175/JPO-D-17-0144.1.
- 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
• Gender Equity Panelist Kids Actually Summit San Diego, CA	May 2018
 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
• Student community organizer Vine Neighborhood Association Kalamazoo, MI	Spring 2008

OUTREACH