



Clifton Stryker Buck, Ph.D.

Skidaway Institute of Oceanography
University of Georgia
10 Ocean Science Circle
Savannah, GA 31411

Office: 912.598.2418
clifton.buck@skio.uga.edu

Experience

- 2013-present Assistant Professor
Skidaway Institute of Oceanography – University of Georgia
- 2011-2013 Postdoctoral Research Associate
Florida State University
Advisor: Dr. William Landing
- 2008-2010 Postdoctoral Scholar
University of California, Santa Cruz
Advisor: Dr. Adina Paytan

Education

- 2008 Ph.D. Oceanography
Florida State University
Dissertation: “*Aerosol Iron Solubility: Observations from the Atlantic and Pacific Oceans*”
Advisor: Dr. William Landing
- 2001 B.S. Earth and Environmental Science – Honors
Lehigh University
Thesis: “*The Nutrient Dynamics of the Lehigh River Watershed*”
Advisor: Dr. Donald Morris

Funding Awards

NSF CNIC. Collaborative Research: U.S.-Brazil Planning visit: Facilitating collaborative research on the Southern Brazilian Continental Shelf. (\$10,430; 01/01/2015-07/31/2015)

NSF Ocean Section - Chemical Oceanography. Collaborative Research: GEOTRACES Arctic Section: Collection and analysis of atmospheric deposition (\$264,219; 10/01/2014-09/30/2017)

NSF Ocean Section - Chemical Oceanography. Collaborative Research: GEOTRACES Pacific Section: Collection and analysis of atmospheric deposition (\$199,380; 12/01/2012-11/30/2016)

Peer-Reviewed Publications

1. **Buck, C.S.**, C. Hammerschmidt, K. Bowman, G. Gill, W.M. Landing (2015). Flux of total and methylmercury to the northern Gulf of Mexico from U.S. estuaries. *Env. Sci. Tech.* 49, 13992-13999, DOI: 10.1021/acs.est.5b03538.
2. Grand, M., C. Measures, M. Hatta, W. Hiscock, W.M. Landing, P. Morton, **C.S. Buck**, P. Barrett, J. Resing (2015). Dissolved Fe and Al in the upper 1000m of the eastern Indian Ocean: a high-resolution transect along 95°E from the Antarctic margin to the Bay of Bengal. *Global Biogeochem. Cycles*, 29, doi: 10.1002/2014GB004920.
3. Grand, M., C. Measures, M. Hatta, W. Hiscock, **C.S. Buck**, W.M. Landing (2015). Dust deposition in the eastern Indian Ocean: the ocean perspective from Antarctica to the Bay of Bengal. *Global Biogeochem. Cycles*, 29, doi: 10.1002/2014GB004898.

4. Barrett, P.M., J.A. Resing, N.J. Buck, R.A. Feely, J. Bullister, **C.S. Buck**, W.M. Landing (2014). Calcium carbonate dissolution in the upper 1000m of the eastern North Atlantic. *Global Biogeochem. Cycles*, 28, doi: 10.1002/2013GB004619.
5. Grand, M., **C.S. Buck**, W.M. Landing, C. Measures, M. Hatta, W. Hiscock, M. Brown, J. Resing (2014). Quantifying the Impact of Atmospheric Deposition on the Biogeochemistry of Fe and Al in the Upper Ocean: A Decade of Collaboration with the CLIVAR / US Repeat Hydrography Program. *Oceanography* 27(1).
6. **Buck, C.S.**, W.M. Landing, J. Resing (2013). Pacific Ocean Aerosols: Deposition and Solubility of Iron, Aluminum, and Other Trace Elements. *Mar. Chem.*, 157, 117-130, doi:10.1016/j.marchem.2013.09.005.
7. Morton, P.L., W.M. Landing, A. Milne, A. Aguilar-Islas, A. Baker, M. Baskaran, **C.S. Buck**, et al. (2013). Methods for the sampling and analysis of marine aerosols: Results from the 2008 GEOTRACES aerosol intercalibration experiment. *Limnol. Oceanogr.: Methods* 11, 62-78, doi:10.4319/lom.2013.11.62.
8. **Buck, C.S.**, A. Paytan (2012). Evaluation of commonly used filter substrates for the measurement of aerosol trace element solubility. *Limnol. Oceanogr.: Methods* 10, 790-806, doi:10.4319/lom.2012.10.790
9. Barrett, P., J. Resing, N. Buck, **C.S. Buck**, W.M. Landing, C. Measures (2012). The Distribution and Composition of Suspended Particulate Matter in the North Atlantic Ocean: A16N. *Mar. Chem.* 142-144, 41-53, doi: 10.1016/j.marchem.2012.07.006.
10. Han, Q., C.S. Zender, J.K. Moore, **C.S. Buck**, Y. Chen, A. Johansen, C.I. Measures (2012). Estimating mineral aerosol iron and aluminum solubility from particle size using diffusion-controlled and surface-area-controlled approximations. *Global Biogeochem. Cycles*, 26, doi:10.1029/2011GB004186.
11. Gallon, C., M. Ranville, C. Conaway, W. Landing, **C. Buck**, P. Morton, A.R. Flegal (2011). Asian industrial lead inputs to the North Pacific evidenced by lead concentrations and isotopic compositions in surface waters and aerosols. *Env. Sci. Tech.*, 23, doi:10.1021/es2020428.
12. **Buck, C.S.**, W.M. Landing, J.A. Resing (2010). Particle size and aerosol iron solubility: A high-resolution analysis of Atlantic aerosols. *Mar. Chem.*, 120, 14-24, doi:10.1016/j.marchem.2008.11.002
13. **Buck, C.S.**, W.M. Landing, J.A. Resing, C.I. Measures (2010). The Solubility and Deposition of Aerosol Fe and other Trace Elements in the North Atlantic Ocean: Observations from the A16N CLIVAR/CO₂ Repeat Hydrography Section. *Mar. Chem.*, 120, 57-70, doi:10.1016/j.marchem.2008.08.003
14. Ranville, M., G. Cutter, **C.S. Buck**, W.M. Landing, L. Cutter, J. Resing, R.A., Flegal (2010). Aeolian contamination of Se and Ag in the North Pacific from Asian fossil fuel combustion. *Env. Sci. Tech.*, 44 (5), 1587-1593, doi:10.1021/es902523m
15. Measures, C.I., W.M. Landing, M.T. Brown, **C.S. Buck** (2008). A commercially available rosette system for trace metal clean sampling. *Limnol. Oceanogr.: Methods* 6, 384-394.
16. Measures, C.I., W.M. Landing, M.T. Brown, **C.S. Buck** (2008). High resolution Al and Fe data from the Atlantic Ocean CLIVAR-CO₂ Repeat Hydrography A16N transect shows extensive linkages between atmospheric dust and upper ocean geochemistry. *Global Biogeochem. Cycles*, 22, GB1005, doi:10.1029/2007GB003042
17. **Buck, C.S.**, W.M. Landing, J.A. Resing, G.T. Lebon (2006). Aerosol iron and aluminum solubility in the northwest Pacific Ocean: Results from the 2002 IOC Cruise. *Geochem. Geophys. Geosyst.*, 7, Q04M07, doi:10.1029/2005GC000977

Publications - In Preparation

1. Marsay, C., J. Fitzsimmons, P. Morton, W. Landing, N. Lanning, **C.S. Buck**. Dissolved and particulate trace metals in Arctic melt ponds. *In prep.*
2. Morton, P., C. Zurbrick, W. Landing, **C.S. Buck**, C. Gallon, J. Donat, R. Flegal, A. Shiller. Upwelling and horizontal transport in the western North Pacific supplies Cd to the central North Pacific. *In prep.*

3. **Buck, C.S.**, W.M. Landing, J. Resing, N. Buck. On the Size Distribution, Composition, and Solubility of Pacific Ocean Aerosols. *In prep.*
4. **Buck, C.S.**, K. Bowman, C. Hammerschmidt, W.M. Landing, G. Gill. Mercury speciation and partitioning in Gulf of Mexico estuaries. *In prep.*
5. Null, K.A, D.R. Corbett, J. Crenshaw, R. Peterson, L. Peterson, **C.S. Buck**, W.B. Lyons. Meltwater pathways and iron delivery to the Antarctic Coastal Ocean. *Submitted to Nature Communications*

Technical Reports

Mercury Species, Fluxes, and Cycling in Gulf of Mexico Estuaries. Prepared for the Florida Department of Environmental Protection, 241pp (2013)

Courses

MARS 8020 – Chemical Oceanography
MARS 1011E – Introduction to the Marine Environment

Advising

Dr. Christopher Marsay – Postdoctoral Research Associate
Allison Statton – Southwest Oklahoma State University undergraduate (co-advised w/ Dr. Aron Stubbins)
Dissolved Organic Carbon and Iron Flocculation in Estuaries

Invited Lectures

- 2015 Trace Element Biogeochemistry: La Plata Plume, Patos Lagoon and Groundwater, Fundação Universidade do Rio Grande, Rio Grande, Brazil
- 2015 Trace Element Biogeochemistry: Aerosol Iron as a Case Study, Savannah State University
- 2013 Iron and Mercury – Case Studies in Trace Metal Cycling. University of Georgia
- 2013 Iron and Mercury – Case Studies in Trace Metal Cycling. Skidaway Institute of Oceanography
- 2011 Aerosols – Linking the Continents, Ocean, and Climate. Sweet Briar College
- 2010 Aerosol Iron – Linking the Continents to the Deep Blue Sea. Oregon State University
- 2010 Marine Chemistry from the Top Down. Sonoma Technology, Inc., Petaluma, California
- 2010 Aerosol Iron Solubility – Methods and Observations. Calera Corporation, Los Gatos, California

Presentations and Posters: (presenter underlined, ¹invited)

- 2017 **Buck, C.S.**¹ Aerosol deposition and fractional solubility of trace elements in the remote ocean. European Association of Geochemistry Goldschmidt Conference, Paris, France.
- 2017 Hammerschmidt, C., **Buck, C.S.**, Bowman, K., Gill, G., Landing, W. Mercury Partitioning and speciation in northern Gulf of Mexico estuaries. International Mercury as a Global Pollutant Meeting, Providence, Rhode Island.
- 2017 **Buck, C.S.**, C. Marsay, A. Ebling, P. Morton, B. Summers, W. Landing. Aerosol concentration, composition, and fractional solubility on the US GEOTRACES Western Arctic Cruise. ASLO Aquatic Sciences Meeting, Honolulu, Hawaii.
- 2017 Summers, B., P. Morton, V. Salters, W. Landing, **C.S. Buck**, C. Marsay. A comparison of extremes: Pb isotopic composition in Arctic and Indian aerosols. ASLO Aquatic Sciences Meeting, Honolulu, Hawaii.
- 2017 Marsay, C., W. Landing, P. Morton, B. Summers, S. Rauchenberg, B. Twining, **C.S. Buck**. Dissolved and particulate trace elements in Arctic melt ponds. ASLO Aquatic Sciences Meeting, Honolulu, Hawaii.
- 2017 Mukherjee, P., Y. Gao, C. Marsay, **C.S. Buck**, W. Landing. Characterization of the water-soluble inorganic and organic species on aerosols in the Arctic troposphere during summer. ASLO Aquatic Sciences Meeting, Honolulu, Hawaii.

- 2016 Gao, Y., C.S. Buck, C. Marsay, P. Mukherjee, W.M. Landing. Mass-size distributions of selected nutrient elements in aerosols and their air-to-sea fluxes to the Arctic Ocean: Preliminary results from the US GEOTRACES Arctic cruise in summer 2015. ASLO Ocean Sciences Meeting, New Orleans, Louisiana.
- 2016 Hammerschmidt, C., C.S. Buck, K. Bowman, G. Gill, W.M. Landing. Flux of total and methyl mercury to the northern Gulf of Mexico from U.S. estuaries. ASLO Ocean Sciences Meeting, New Orleans, Louisiana.
- 2016 Marsay, C.M., C.S. Buck, W.M. Landing, N.J. Wyatt. Atmospheric Deposition to the Arctic Ocean: Concentrations of Dissolved Trace Elements in Melt Ponds During US GEOTRACES Western Arctic Section. ASLO Ocean Sciences Meeting, New Orleans, Louisiana.
- 2016 Null, K.A., D.R. Corbett, J. Crenshaw, R. Peterson, L. Peterson, C.S. Buck, W.B. Lyons. Meltwater Pathways and Iron Delivery to the Antarctic Coastal Ocean. ASLO Ocean Sciences Meeting, New Orleans, Louisiana.
- 2016 Savidge, W., H. Windom, C.S. Buck. Geographic and Oceanographic Information within Trace Metals in Moray Eel Otoliths. ASLO Ocean Sciences Meeting, New Orleans, Louisiana.
- 2016 Summers, B.A., P.L. Morton, N.J. Buck, W.M. Landing, C.S. Buck, P.M. Barrett, J.A. Resing. Supply of Natural and Industrial Aerosols to the Indian Ocean. ASLO Ocean Sciences Meeting, New Orleans, Louisiana.
- 2016 Aguilar-Islas, A., C.S. Buck, R. Rember, W. Landing. Constraining the Solubility of Aerosol Fe using US GEOTRACES Data. ASLO Ocean Sciences Meeting, New Orleans, Louisiana.
- 2016 Morton, P.L., C. Zurbrick, W.M. Landing, C.S. Buck, C. Gallon, J.R. Donat, A.M. Shiller, A.R. Flegal. A Margin Source of Cd in the Western North Pacific Ocean. ASLO Ocean Sciences Meeting, New Orleans, Louisiana.
- 2015 Peterson, R.N., C.S. Buck, H.L. Windom, L.F. Niencheski, L.E. Peterson. Physical controls on iron and trace element transport across the southern Brazilian continental shelf. Gordon Research Conference: Chemical Oceanography. Holderness School, New Hampshire.
- 2015 Bowman, K., C.S. Buck, C. Hammerschmidt, W.M. Landing, G. Gill. Flux of total and methyl mercury to the northern Gulf of Mexico from U.S. estuaries. International Conference on Mercury as a Global Pollutant, Jeju, Korea.
- 2015 Buck, C.S., A. Aguilar-Islas, R. Rember, W. Landing. Dry depositional flux and aerosol iron fractional solubility. ASLO Aquatic Sciences Meeting, Granada, Spain.
- 2014 Buck, C.S., W. Landing, A. Aguilar-Islas, R. Rember. Trace element fractional solubility in ultrapure water from samples collected during the US GEOTRACES Eastern Tropical South Pacific Section. AGU Fall Meeting, San Francisco, California.
- 2014 Corbett, D.R., K. Null, J. Crenshaw, W. Lyons, R. Peterson, L. Peterson, R. Viso, C.S. Buck. Meltwaters in Antarctica: Delineating and quantifying sources of freshwater along the Western Antarctic Peninsula. AGU Fall Meeting, San Francisco, California.
- 2014 Landing, W., A. Milne, C.S. Buck. Fertilizing the photic zone in the Pacific Ocean: Where do the bioactive trace elements come from? Challenger Society Marine Conference, Plymouth, UK.
- 2014 Morton, P., C. Zurbrick, C.S. Buck, C. Gallon, J. Donat, W. Landing, A. Shiller, A.R. Flegal. Too much cadmium in the western North Pacific: sources, sinks and the biological response. Southeastern Biogeochemistry Symposium, Atlanta, Georgia.
- 2014 Buck, C.S., K. Bowman, G. Gill, C. Hammerschmidt, W. Landing, A. Landing. Partitioning and Speciation of Mercury in Gulf of Mexico Estuaries. ASLO Ocean Sciences Meeting, Honolulu, Hawaii.
- 2013 Buck, C.S., A. Landing, K. Bowman, G. Gill, C. Hammerschmidt, W. Landing. Riverine supply of inorganic and methyl mercury to the Gulf of Mexico. ASLO Aquatic Sciences Meeting, New Orleans, Louisiana.
- 2013 Morton, P., W. Landing, C. Measures, C. Buck, K. Gosnell, M. Grand, M. Hatta, W. Hiscock. Dissolved Cd, Co, Cu, Ni, Mn and Pb along the CLIVAR I8S/I9N Indian Ocean transects. ASLO Aquatic Sciences Meeting, New Orleans, Louisiana.
- 2012 Buck, C.S., W.M. Landing, J. Resing, N. Buck. On the Size Distribution, Composition, and Solubility of Pacific Ocean Aerosols. AGU/ASLO Ocean Sciences Meeting, Salt Lake City, Utah.

- 2010 Milne, A., C.S. Buck, C. Measures, W.M. Landing. Comparative Estimates of the Flux of Bioactive Trace Elements to the Upper Water Column in the Pacific Ocean. Goldschmidt 2010, Knoxville, Tennessee.
- 2010 Paytan, A., K. Mackey, E. Reistetter, C.S. Buck. Aerosol Impacts on Marine Phytoplankton. Goldschmidt 2010, Knoxville, Tennessee.
- 2010 Buck, C.S., W.M. Landing. The Concentrations and Solubilities of Aerosol Trace Elements over the Pacific Ocean. ASLO Ocean Sciences Meeting, Portland, Oregon.
- 2010 Measures, C.I., W.M. Landing, C.S. Buck, M. Brown, W.T. Hiscock, M.M. Grand, M. Hatta, K.J. Gosnell. Dust Deposition to the Surface Waters of the Global Ocean. ASLO Ocean Sciences Meeting, Portland, Oregon.
- 2009 Buck, C.S., A. Paytan. How Important is Methodology to Estimates of Aerosol Trace Element Solubility? AGU Fall Meeting, San Francisco, California.
- 2008 Buck, C.S., W.M. Landing, J.A. Resing, N. Buck, P. Lam, D. Ohnemus. Aerosol Iron Solubility: Observations from the Atlantic and Pacific Oceans. AGU Fall Meeting, San Francisco, California.
- 2008 Grand, M.M., C.I. Measures, W.M. Landing, W.T. Hiscock, C.S. Buck, M. Hatta, K. Gosnell. High Resolution Dissolved Fe and Al along 95°E in the South Indian Ocean: Results from the CLIVAR I8S Repeat Hydrography Section. AGU Fall Meeting, San Francisco, California.
- 2008 Hiscock, W.T., C.I. Measures, W.M. Landing, C.S. Buck. High-Resolution Dissolved Fe and Al along 150° W in the North Pacific Ocean: Results from the CLIVAR Repeat Hydrography P16N Section. AGU Fall Meeting, San Francisco, California.
- 2008 Vance, D., W.M. Landing, C.S. Buck. Transition metal stable isotope data for North Atlantic aerosols: first data and implications for atmospheric inputs to the ocean. AGU Fall Meeting, San Francisco, California.
- 2008¹ Buck, C.S., W.M. Landing, J. Resing. Aerosol Iron Solubility in Size-Fractionated Samples Collected Over the North Atlantic and North Pacific During Three CO₂/CLIVAR Repeat Hydrography Sections. AGU/ASLO Ocean Sciences Meeting, Orlando, Florida.
- 2008 Measures, C.I., W.M. Landing, C. Buck, M. Brown, W.M. Hiscock, M. Grand, M. Hatta, K. Gosnell. Global patterns of dust deposition deduced from dissolved Al in the surface ocean. V.M. Goldschmidt Conference, Vancouver, Canada.
- 2007 Landing, W.M., C.S. Buck, C.I. Measures, W. Hiscock, M. Hatta. Atmospheric Supply of Trace Elements to the Oceans: Results from the CLIVAR Repeat Hydrography project 2003-2007. AGU Fall Meeting, San Francisco, California.
- 2007 Buck, C.S., W.M. Landing, J. Resing. Exploring Aerosol Fe Solubility in the North Atlantic Ocean. Gordon Research Conference – Chemical Oceanography, Tilton, New Hampshire.
- 2006 Buck C.S., W.M. Landing, J. Resing, G.T. Lebon. The Solubility of Aerosol Iron and Aluminum in the Pacific Ocean: Results From the CLIVAR/CO₂ Repeat Hydrography Cruises. AGU Fall Meeting, San Francisco, California.
- 2006 Brown, M.T., C.I. Measures, W.M. Landing, C.S. Buck. Trace Element Distributions Along P16S Show the Effect of Australian Continental Dust Inputs. AGU Fall Meeting, San Francisco, California.
- 2006 Hiscock, W.T., C.I. Measures, W.M. Landing, C.S. Buck. Input and transport processes revealed in trace metal distributions along P16N. AGU Fall Meeting, San Francisco, California.
- 2006 Landing, W.M., C.S. Buck, M. Bizimis, C.I. Measures. Ocean Sections of Dissolved Mn, Fe, Co, Ni, Cu, Cd, and Pb. AGU Fall Meeting, San Francisco, California.
- 2006 Buck C.S., W.M. Landing, J. Resing, G.T. Lebon. The Solubility and Deposition of Aerosol Fe and Other Trace Elements to the Pacific Ocean. AGU/Ocean Sciences Meeting, Honolulu, Hawaii. (accepted but not presented due to cruise conflict)
- 2006 Ranville M.A., G.A. Cutter, C.S. Buck, W.M. Landing, L.S. Cutter, J. Resing. Evidence of Asian Coal Combustion Inputs in North Pacific Surface Waters and Atmosphere. AGU/Ocean Sciences Meeting, Honolulu, Hawaii.
- 2004 Landing, W.M., C.I. Measures, C.S. Buck, M.T. Brown. Sections of Dissolved Iron and Aluminum in the North Atlantic and North Pacific: Results from the CLIVAR Repeat Hydrography A16N and P02 Expeditions. AGU Fall Meeting, San Francisco, California.

- 2004 Buck, C.S., W.M. Landing, J. Resing, G.T. Lebon. The Speciation and Solubility of Aerosol Iron and Aluminum in the North Atlantic Ocean: Results from the 2003 CLIVAR A16N Expedition. ASLO/TOS Ocean Research Conference, Honolulu, Hawaii.
- 2004 Landing, W.M., C.I. Measures, C.S. Buck, M.T. Brown. A North Atlantic Section for Dissolved Fe and Al. ASLO/TOS Ocean Research Conference, Honolulu, Hawaii.
- 2004 Buck, C.S., W.M. Landing, J. Resing, G.T. Lebon. The Fluxes of Total and Soluble Aerosol Fe and Al to the North Atlantic Ocean: The 2003 Repeat Hydrography A16N Section. AGU Ocean Sciences Meeting, Portland, Oregon.
- 2004 Landing, W.M., C.I. Measures, C.S. Buck, M.T. Brown. Sections of Dissolved Iron and Aluminum from the 2003 Repeat Hydrography A16N Expedition. AGU Ocean Sciences Meeting, Portland, Oregon.
- 2003 Buck, C.S., W.M. Landing, J. Resing, G.T. Lebon. The Speciation and Solubility of Aerosol Iron and Aluminum in the North Atlantic Ocean: Results from the 2003 CLIVAR A16N Expedition. AGU Fall Meeting, San Francisco, California.
- 2003 Measures, C.I., W.M. Landing, C.S. Buck, M.T. Brown. The Influence of Eolian Deposition on Dissolved Al and Fe Distributions in the North Atlantic during the CLIVAR A16N Cruise. AGU Fall Meeting, San Francisco, California.
- 2003 Landing, W.M., C.S. Buck. Solubility and Deposition of Saharan and Asian Dust to the Open Ocean. 2003 American Chemical Society National Meeting, New Orleans, Louisiana.
- 2002 Buck, C.S., W.M. Landing, J. Resing, G.T. Lebon. The Speciation and Solubility of Aerosol Iron and Aluminum in the Northwest Pacific Ocean: Results from the 2002 NSF/IOC Cruise. AGU Fall Meeting, San Francisco, California.
- 2002 Landing, W.M., C.S. Buck, R. Powell. Atmospheric Deposition and Upper Ocean Cycling of Iron and Aluminum in the Gulf of Mexico: Results from the SWISS Project. AGU/ASLO Ocean Sciences Meeting, Honolulu, Hawaii.
- 2002 Buck, C.S., W.M. Landing, J. Resing, G.T. Lebon. The Speciation and Solubility of Aerosol Iron in the Gulf of Mexico: Results from the SWISS Project. AGU/ASLO Ocean Sciences Meeting, Honolulu, Hawaii.

Ad Hoc Manuscript Review:

Atmospheric Chemistry and Physics, Atmospheric Research, Biogeosciences, Biogeosciences Discussions, Environmental Chemistry, Geochemistry Geophysics Geosystems, Geochimica et Cosmochimica Acta, Geophysical Research Letters, Global Biogeochemical Cycles, JGR-Atmospheres, JGR-Oceans, L&O:Methods, Marine Chemistry, Nature, Science Advances

Ad Hoc Proposal Review:

NSF OCE-Chemical Oceanography
 NSF Graduate Research Fellowship panelist (invited)
 German Research Foundation
 Université Libre de Bruxelles: Action Recherche Concertée
 European Research Council
 New York Sea Grant

Honors and Awards

- 2017 UGA Provost International Travel Award
 2015 UGA Provost International Travel Award
 2010 ASLO Early Career Travel Award
 2008 FSU Department of Oceanography Outstanding Graduate Student
 2007 FSU Department of Oceanography Graduate Student Travel Award
 2001 Graduated with Honors, Lehigh University

Service

2015-present	SkIO Seminar Chair
2015-present	SkIO Webpage Renovation Committee
2013-present	UGA Marine Sciences Graduate Affairs Committee
2016	SkIO Graphic Designer Search Committee
2015-2016	SkIO IT Director Search Committee
2014	UGA Marine Sciences Webpage Renovation Committee
2013-2015	Southeastern Biogeochemistry Symposium – Steering Committee

Workshops and Synergistic Activities

2017	Session chair, “Linking atmospheric deposition to the biogeochemistry of aquatic and marine systems”, ASLO Aquatic Sciences Meeting, Honolulu, HI
2016	US GEOTRACES Alaska-Tahiti Planning Meeting - La Jolla, CA
2016	OCB/GEOTRACES: Biogeochemical Cycling of Trace Elements with within the Ocean Workshop – Palisades, NY
2016	Session chair, “Atmospheric Deposition and Ocean Biogeochemistry”, ASLO Ocean Sciences Meeting, New Orleans, LA
2015	Session chair, “Atmospheric Deposition and Ocean Biogeochemistry”, ASLO Aquatic Sciences Meeting, Granada, Spain
2015	US GEOTRACES Arctic Section Cruise Planning Meeting – Miami, FL
2013	US GEOTRACES Pacific Section Planning Meeting – WHOI, MA
2012	US GEOTRACES Arctic Section Planning and Implementation Meeting – Alexandria, VA
2012	COSEE Education and Outreach Professional Development Workshop – Salt Lake City, UT
2011	US GEOTRACES Pacific Section Planning Meeting – La Jolla, CA

Fieldwork

2013	US GEOTRACES Eastern Pacific Zonal Transect, R.V. Thompson, Ecuador – Tahiti, 57 days
2012	FSU/FDEP joint research on 10 largest river/estuary systems in Northern Gulf of Mexico
2007	CLIVAR I8S Repeat Hydrography Cruise, R.V. Revelle, New Zealand - Australia, 41 days
2006	CLIVAR P16N Repeat Hydrography Cruise, R.V. Thompson, Tahiti – Hawaii - Alaska, 42 days
2005	CLIVAR P16S Repeat Hydrography Cruise, R.V. Revelle, Tahiti - New Zealand, 42 days
2004	CLIVAR P2 Repeat Hydrography Cruise, R.V. Melville, Japan - California, 72 days
2003	CLIVAR A16N Repeat Hydrography Cruise, NOAA Ronald H. Brown, Iceland - Brazil, 75 days
2002	IOC Cruise, R.V. Melville, Japan - Hawaii, 35 days
2002	SWISS-III, R.V. Pelican, northern Gulf of Mexico, 21 days
2001	SWISS-II, R.V. Pelican, northern Gulf of Mexico, 15 days