

CURRICULUM VITAE

AMANDA C. SPIVAK

Associate Professor

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EDUCATION.

Ph.D.: Marine Science. 2008. College of William & Mary, Williamsburg, VA.

Dissertation: *Bottom-up and Top-down Controls on Sedimentary Ecosystem Functioning in a Seagrass Habitat* (Advisors: Elizabeth A. Canuel and J. Emmett Duffy)

A.B.: Biology, Environmental Science concentration, with honors. Minor in English. Magna Cum Laude. 2001. Bryn Mawr College, Bryn Mawr, PA.

PROFESSIONAL EXPERIENCE.

Associate Professor. University of Georgia, Department of Marine Sciences, Athens, GA. 2019 – Present.

Associate Scientist. Woods Hole Oceanographic Institution, Department of Marine Chemistry and Geochemistry, Woods Hole, MA. 2015 – 2018.

Assistant Scientist. Woods Hole Oceanographic Institution, Department of Marine Chemistry and Geochemistry, Woods Hole, MA. 2011 – 2015.

Postdoctoral Fellow. U.S. Environmental Protection Agency, Gulf Ecology Division, Ecosystem Assessment Branch, Gulf Breeze, FL. 2010 – 2011.

Postdoctoral Fellow. Miami University, Zoology Department, Oxford, OH. Advisor: Michael J. Vanni. 2008 – 2009.

Graduate Assistant. College of William & Mary, Virginia Institute of Marine Science, Physical Sciences Department, Gloucester Point, VA. 2002 – 2008.

Intern. Smithsonian Environmental Research Center, Marine Invasions Research Lab. Edgewater, MD. Supervisor: Gregory M. Ruiz. 12/2001 – 5/2002.

Intern. Dauphin Island Sea Lab, Marine Ecology Lab, Dauphin Island, AL. Supervisor: Kenneth L. Heck, Jr.. 8/2001 – 12/2001.

Intern. University of Miami, Rosenstiel School of Marine and Atmospheric Science, Miami, FL. Supervisor: Larry E. Brand. 6/2001 – 8/2001.

NSF REU Intern. University of Maine, Darling Marine Center, Walpole, ME. Supervisor: Lawrence Mayer. 6/2000 – 8/2000.

Student. Marine Biological Laboratory, Semester in Environmental Science, Woods Hole, MA. Independent project supervisor: Charles Hopkinson. 9/1999 – 12/1999

Student. Sea Education Association (C-164), Woods Hole, MA. 6/1999 – 8/1999.

AWARDS.

- US EPA, Scientific and Technological Achievement Award Honorable Mention, 2013
- ASLO Early Career Travel Award, 2013
- Invited Participant, ECO-DĀS VIII, 2008
- U.S. Environmental Protection Agency STAR Fellow, 2005 – 2008
- VIMS Matthew Fontaine Maury Student Fellowship Award, 2007
- VIMS Department of Graduate Studies Equipment Grant, 2007

- VIMS Student Research Grant, 2005 – 2006
- VIMS Graduate Fellowship Award, 2002 – 2005
- VIMS GSA Conference Fund Award, 2003

PROFESSIONAL AFFILIATIONS.

- Coastal and Estuarine Research Federation (CERF)
- Association for the Sciences of Limnology and Oceanography (ASLO)
- American Geophysical Union (AGU)
- European Geophysical Union (EGU)

PROFESSIONAL ACTIVITIES.

- Coastal Carbon RCN Soil Carbon Working Group (Invited). 2018 – present.
- CERF’s Career Development and Education Committee (Invited). 2018 – present.
- Session chair: ASLO Summer Meeting 2018, Victoria, BC. “Biogeochemical Transformations Across Terrestrial - Aquatic Interfaces”; CERF Meeting 2017, Providence, RI. “Coastal vegetated habitats as carbon sinks-sources in a changing world”; Joint Aquatic Sciences Meeting 2014, Portland, OR. “Functioning of salt marsh and mangrove wetland ecosystems across ecological and spatial scales”.
- Invited participant: Annual National Estuarine Research Reserve System Science Collaborative Workshop. November 2017. Providence, RI.
- Participant: Earth Science Women’s Network workshop on leadership and management skills. June 2013. Providence, RI.
- Outreach: New Bedford Symphony Orchestra’s Learning in Concert program (2017-2018); WHOI’s Ocean Science Journalism Fellows program (2012, 2017); Falmouth Middle School and High Schools (2013); Chapin School (2013); Talawanda Grade School Science Days (2009); VIMS Marine Science Day (2007); Smithsonian Environmental Research Center Open House (2002).
- Panelist speaker: Marine Biological Laboratory’s Semester in Environmental Science “Workshop on the role of off-campus study and research programs in undergraduate science education”. 2014. Woods Hole, MA.
- Student presentation judge: Marine Biological Laboratory Semester in Environmental Science. December 2011, Woods Hole, MA.
- NSF panelist for Chemical Oceanography, SEES-Ocean Acidification, and EPSCoR programs and ad hoc reviewer for the granting agencies NSF (Biological Oceanography, Division of Environmental Biology, Arctic Natural Sciences) and Sea Grant as well as a book chapter (Salt Marshes: Function, Dynamics, and Stresses. Eds. D. FitzGerald and Z. Hughes. Cambridge University Press) and the journals Applied Geochemistry, Biogeosciences, Ecological Applications, Ecology, Environmental Science and Technology, Estuarine Coastal and Shelf Science, Estuaries and Coasts, Freshwater Biology, Frontiers in Marine Science - Marine Ecosystem Ecology, Geochimica et Cosmochimica Acta, Global Biogeochemical Cycles, Hydrobiologia, Journal of Experimental Marine Biology and Ecology, Journal of Geophysical Research – Biogeosciences, Journal of Phycology, Limnology & Oceanography, Limnology & Oceanography Methods, Marine Biology, Marine Pollution Bulletin, Marine Ecology Progress Series, Oikos, Organic Geochemistry, PLoS One, Science of the Total Environment, The American Naturalist, and Wetlands.

WHOI (Non-education related):

- Search Committee for Vice President of Academic Programs and Dean. 2016 – 2017.
- Search Committee for Marine Chemistry and Geochemistry Department Chair. 2017.
- Scientific Staff Executive Committee. 2015 – 2017.
- Coastal Ocean Institute Advisory Committee. 2015 – 2016.
- Marine Chemistry and Geochemistry Department Seminar Series Organizer. 2015 – 2016.
- Seawater Users Committee. 2011 – Present.
- Women’s Committee. 2011 – 2013.

TEACHING AND MENTORING EXPERIENCE.

Graduate teaching MIT-WHOI Joint Program:

Geochemistry: Marine Sediments (MIT 12.743) Spring 2013, 2015, 2017.

Topics in Biological Oceanography: Food Webs - Structure, Dynamics, and Ecosystem Function (MIT 7.433) Fall 2016

Marine Chemistry Seminar: Landmark Papers in Chemical Oceanography (MIT 12.759) Spring 2012, 2014.

Teaching Assistant:

Graduate level - Fundamentals of Marine Science Lab, College of William & Mary, VA. 2005.

Undergraduate level - Introductory Biology Lab, Bryn Mawr College, PA. 8/2000 – 5/2001.

Undergraduate level - Field Ecology, Bryn Mawr College, PA. Fall 2000.

Post-doc (co-advisor): Meagan Eagle Gonneea (USGS), 2014 – 2015.

MIT-WHOI JP Graduate Student Advisor: Sheron Luk, 2017 – present.

MIT-WHOI JP Graduate Student Committee Member: Evan Howard, 2014 – 2016.

Co-advisor MIT-WHOI Joint Program Chemical Oceanography students. 2011 – 2013.

Undergraduate Student Mentoring:

WHOI Summer Student Fellows. Claire Mayorga, 2018. Rowena Schenck, 2017. Margaret Capocci, 2015. Jennifer Reeve, 2013.

WHOI Guest students. Madelyn Francesconi, 2018. Sam McNichol 2016, 2017. Sarah Jayne, 2016. Kelsey Gosselin, 2014. Claire Hoffman 2014.

MBL NSF REU Interns. Gyujong Yoo, 2017. Nathalie Sommer, 2015. Alison Hall, 2014.

MIT Undergraduate Research Opportunities Program. Alexander Denmark, 2016.

Semester at WHOI. Katelyn Rainville 2017. Lina Davidson 2015.

Woods Hole Partnership in Education Program. Rea Pineda, 2012. Melisa Diaz, 2013, Stefani Johnson, 2015. Emily Neel, 2016.

Miami University’s Undergraduate Summer Scholar. Jill Goodwin, 2009.

College of William & Mary. Undergraduate Thesis. Tim Montgomery, 2004–2005.

High School Student Mentoring:

WHOI Volunteer. Thomas Glover, 2017.

Massachusetts High School Science Fairs. Lily Kane-Myette, Sarah Sherwood 2013–2014 (1st place State Fair); Sam McNichol, Daniel Morrison, Dmitry Shribak 2015.

Virginia Governor’s School. Mara Kish – 2007.

MEDIA:

“Marshes, Mosquitoes, and Sea Level Rise: How did mosquito-control methods affect coastal marshes?” October 2018. *Oceanus*. <http://www.whoi.edu/oceanus/feature/managing-marshes-mosquitoes-sea-level-rise>

“Who is WHOI?” October 2018. Promotional video. <http://www.whoi.edu/visualWHOI/who-is-who>

“A Changing Oceanscape: Carbon and Marine Ecosystems”. November 2017. A short film produced by the Ocean Carbon and Biogeochemistry Program and featured at the 2017 AGU Fall Meeting. <https://www.us-ocb.org/new-ocb-short-film/>
“Study will explore salt marsh management”. October 2017. *Falmouth Enterprise*
Spivak Mesocosm Lab Video. 2014. *Oceanus*. <http://www.whoi.edu/oceanus/feature/mesocosm-lab>
Spivak Mesocosm Lab Audio Slideshow. 2014. *Oceanus*. <http://www.whoi.edu/oceanus/feature/eric-slideshow>

SUPERVISION AT WHOI.

Technicians: Kelsey Gosselin (2015-2018), David Beaudoin (2014), Catherine Carmichael (2013–2014), Katherine Hoering (2013), Justin Ossolinski (2013-2014), Gretchen Swarr (2013), Jeremy Tagliaferre (2013–2014), Kerry McCulloch (2013).
Volunteers: Jo and Tom Kraemer (2013 – 2014), Sam McNichol (2014 – 2016), Lizzie Tobeason (2015), Thomas Glover (2017)

PAPERS IN REFEREED JOURNALS.

Nelson, J.A., D.S. Johnson, L.A. Deegan, **A.C. Spivak**, and N.R. Sommer. 2018. Feedbacks between nutrient enrichment and geomorphology alter bottom-up control on food webs. *Ecosystems*. doi.org/10.1007/s10021-018-0265-x
Spivak, A.C., K. Gosselin, and S.P. Sylva. 2018. Shallow ponds are biogeochemically distinct habitats in salt marsh ecosystems. *Limnology and Oceanography*. 63: 1622-1642 doi.org/10.1002/lno.10797
Spivak, A.C., K. Gosselin, E. Howard, G. Mariotti, I. Forbrich, R. Stanley, and S.P. Sylva. 2017. Shallow ponds are heterogeneous habitats within salt marsh ecosystems. *JGR Biogeosciences*. doi.org/10.1002/2017JG003780
Krauss, K.K., N. Cormier, M.J. Osland, M.L. Kirwan, C.L. Stagg, J.A. Nestlerode, M.J. Russell, A.S. From, **A.C. Spivak**, D.D. Dantin, J.E. Harvey, and A.E. Almario. 2017. Created mangrove wetlands store belowground carbon and surface elevation change enables them to adjust to sea-level rise. *Scientific Reports* 7(1030): 1-11. 10.1038/s41598-017-01224-2
*Highlighted in USGS Earth Science Matters Newsletter. Volume 7, Fall 2017
Spivak, A.C. and J. Ossolinski. 2016. Limited effects of nutrient enrichment on bacterial carbon sources in salt marsh tidal creek sediments. *Marine Ecology Progress Series* 544: 107-130.
Spivak, A.C. and J. Reeve. 2015. Rapid cycling of recently fixed carbon in a *Spartina alterniflora* system: A stable isotope tracer experiment. *Biogeochemistry* 125: 97-114. 10.1007/s10533-015-0115-2
Spivak, A.C. 2015. Benthic biogeochemical responses to changing estuary trophic state and nutrient availability: A paired field and mesocosm experiment approach. *Limnology and Oceanography*. 60(1): 3-21.
O.J. Schmitz, P.R. Raymond, J.A. Estes, W.A. Kurz, G.W. Holtgrieve, M.E. Ritchie, D.E. Schindler, **A.C. Spivak**, R.W. Wilson, M.A. Bradford, V. Christensen, L. Deegan, V. Smetacek, M.J. Vanni, and C.C. Wilmers. 2014. Animating the carbon cycle. *Ecosystems*. 17(2): 344-359.
M.J. Osland, **A.C. Spivak**, J.A. Nestlerode, J.M. Lessman, A.E. Almario, P.T. Heitmuller, M.J. Russell, K.W. Krauss, F. Alvarez, D.D. Dantin, J.E. Harvey, A.S. From, N. Cormier, and C.L. Stagg. 2012. Ecosystem development after mangrove wetland creation: Plant - soil change across a 20-year chronosequence. *Ecosystems*. 15(5): 848-866
Spivak, A.C., M.J. Vanni, and E. Mette. 2011. Moving on up: Can results from simple aquatic mesocosm experiments be applied across broad spatial scales? *Freshwater Biology*. 56(2): 279-291.

**One of the most highly ranked articles in ecology by Faculty of 1000, 2011*

- Fox, S., Y. Olsen, and **A.C. Spivak**. 2010. Effects of bottom-up and top-down controls and climate change on estuarine macrophyte communities and the ecosystem services they provide, p. 129-145. In P.F. Kemp [ed.], *Eco-DAS VIII Symposium Proceedings*. ASLO. [doi:10.4319/ecodas.2010.978-0-9845591-1-4.129]
- Griffen, B.D., D. Spooner, **A.C. Spivak**, A.M. Kramer, A.E. Santoro, N.E. Kelly. 2010. Moving species redundancy toward a more predictive framework, p. 30-46. In P.F. Kemp [ed.], *Eco-DAS VIII Symposium Proceedings*. ASLO. [doi:10.4319/ecodas.2010.978-0-9845591-1-4.30]
- Spivak, A.C.**, E.A. Canuel, J.E. Duffy, and J.P. Richardson. 2009. Nutrient enrichment and food web composition affect ecosystem metabolism in an experimental seagrass habitat. *PLoS ONE* 4(10): e7473. [doi:10.1371/journal.pone.0007473]
- Spivak, A.C.**, E.A. Canuel, J.E. Duffy, J.G. Douglass, and J.P. Richardson. 2009. Epifaunal community composition and nutrient levels alter sediment organic matter composition in a seagrass bed: A field experiment. *Marine Ecology Progress Series* 376: 55-67.
- Spivak, A.C.**, E.A. Canuel, J.E. Duffy, and J.P. Richardson. 2007. Top-down and bottom-up controls on sediment organic matter composition in an experimental seagrass system. *Limnology and Oceanography* 52(6): 2595-2607.
- J.G. Douglass, J.E. Duffy, **A.C. Spivak**, and J.P. Richardson. 2007. Nutrient versus consumer control of community structure in a Chesapeake Bay eelgrass habitat. *Marine Ecology Progress Series* 348: 71-83.
- E.A. Canuel, **A.C. Spivak**, E.J. Waterson, and J.E. Duffy. 2007. Biodiversity and food web structure influence short-term accumulation of sediment organic matter in an experimental seagrass system. *Limnology and Oceanography* 52(2): 590-602.

PAPERS PRESENTED AND INVITED LECTURES: (* invited; ^ student presentation)

- ^Mayorga, C., M. Gonnee, **A.C. Spivak**. The effect of ditching on carbon storage in salt marshes. 2019. ASLO Aquatic Sciences Meeting. Puerto Rico.
- ^Bulsecu-Mckim, A., J. Vineis, A.E. Murphy, A.E. Giblin, J. Sanderman, **A.C. Spivak**, and J.L. Bowen. 2018. The role of nitrate as an electron acceptor in salt marsh organic matter decomposition. Goldschmidt Conference, Boston, MA. Oral Presentation.
- Spivak, A.C.**, K. Gosselin, S. Sylva. 2018. Shallow ponds impact carbon storage in salt marsh ecosystems. ASLO Summer Meeting, Victoria, CA. Oral Presentation.
- ***Spivak, A.C.** K. Gosselin, I. Forbrich, G. Mariotti, M. Gonnee, S. Sylva. 2018. Shallow ponds impact salt marsh biogeochemistry and carbon storage. Dauphin Island Sea Lab Seminar, Dauphin Island, AL.
- ***Spivak, A.C.** 2018. Disturbance impacts on coastal ecosystem ecology and metabolism. Department of Marine Sciences Seminar, University of Georgia, GA.
- ***Spivak, A.C.**, K. Gosselin, M. Gonnee, S. Sylva. 2017. Integrating heterogeneity: Shallow ponds are biogeochemically distinct habitats that reduce carbon storage in salt marsh ecosystems. Biology Department Seminar, Boston University, Boston, MA.
- Spivak, A.C.**, K. Gosselin, M. Gonnee, S. Sylva. 2017. Shallow ponds and carbon biogeochemistry in salt marsh ecosystems. CERF Conference, Providence, RI. Oral Presentation.
- ^Schenck, R.M., K.M. Gosselin, G. Yoo, I. Forbrich, **A.C. Spivak**. 2017. Sediment respiration and sulfur cycling in salt marsh ponds. CERF Conference, Providence, RI. Poster Presentation. *Undergraduate poster award, 2nd place*
- Gosselin, K.M., **A.C. Spivak**, M. Gonnee, K. Kroeger. 2017. The effects of removing tidal restrictions on the biogeochemistry of salt marshes restored over 14y. CERF Conference, Providence, RI. Oral Presentation.

- Gonneea, M., K. Kroeger, **A.C. Spivak**, K. M. Gosselin. 2017. Impact of tidal restoration on vertical accretion and carbon storage in salt marsh ecosystems. CERF Conference, Providence, RI. Oral Presentation.
- Nelson, J.A., D.S. Johnson, L.A. Deegan, **A.C. Spivak**, N.R. Moore. 2017. Geomorphology modifies bottom-up control on food webs. CERF Conference, Providence, RI. Oral Presentation.
- ^Bulsec-McKim A.N., A.E. Giblin, J. Tucker, J. Sanderman, **A.C. Spivak**, K. Hiller, J.L. Bowen. 2017. Does the addition of nitrate stimulate decomposition of organic matter in salt marsh sediments? CERF Conference, Providence, RI. Oral Presentation.
- Spivak, A.C.**, T-M Surgeon-Rogers, M. Tyrrell, G. Mariotti, M. Gonneea, K. Kroeger, S. Adamowicz, G. Sakolksy, Z.A. Wang. 2017. Evaluating the impact of hydrologic alterations on salt marsh sustainability in a changing climate. NERRS Annual Meeting. Corpus Christi, TX. Poster Presentation.
- ***Spivak, A.C.** 2017. Career paths in marine science. Marine Science Minor Program, The College of William & Mary, Williamsburg, VA.
- ***Spivak, A.C.** 2017. The role of ponding in marsh biogeochemistry and carbon storage. Biology Department Seminar, Virginia Institute of Marine Science, Gloucester Point, VA.
- ***Spivak, A.C.** 2017. The role of ponding in marsh biogeochemistry and carbon storage. Marine Chemistry & Geochemistry Department Seminar, WHOI, Woods Hole, MA
- Spivak, A.C.**, K. Gosselin, M. Gonneea, S. Sylva. 2017. Shallow ponds affect carbon storage in temperate salt marsh ecosystems. Goldschmidt Conference, Paris, France.
- ***Spivak, A.C.**, I. Forbrich, G. Mariotti, E. Howard, M. Gonneea, S. Sylva. 2017 Shallow ponds and marsh carbon metabolism. OCB Summer Workshop, Woods Hole, MA.
- ***Spivak, A.C.** 2017. Shallow ponds are heterogeneous habitats in temperate salt marsh ecosystems. WHOI, Applied Ocean Physics and Engineering Department, Woods Hole, MA. Coastal and Ocean Fluid Dynamics Laboratory Seminar.
- ***Spivak, A.C.** 2017. Shallow ponds are heterogeneous habitats in temperate salt marsh ecosystems. University of Virginia, Department of Environmental Sciences, Charlottesville, VA. Department Seminar.
- Bulsec-McKim, A., A. Giblin, J. Tucker, J. Sanderman, **A.C. Spivak**, K. Hiller, J. Bowen. 2017. Linking microbial community structure to decomposition of salt marsh sediment organic matter in response to nitrate exposure. ASLO Meeting. Honolulu, HI. Oral Presentation.
- ***Spivak, A.C.** 2016. Biogeochemical Dynamics in Temperate Salt Marsh Ponds. Northeastern University, Nahant Marine Science Center. Nahant, MA. Department Seminar.
- ***Spivak, A.C.** 2016. Biogeochemical processes in three ponds in the PIE-LTER marshes. MBL Ecosystems Seminar. Woods Hole, MA. Department Seminar.
- Spivak, A.C.**, K. Gosselin, M.E. Gonneea. 2016. Ponding and salt marsh carbon dynamics. Estuarine Coast and Shelf Association meeting. Bremen, Germany. Oral Presentation.
- Sanks, K., Gonneea, M., Kroeger, K. D., **Spivak, A.C.**, Roberts, D. 2016. Carbon burial in salt marshes following tidal restriction: A case study from Cape Cod, MA. Geological Society of America conference. Denver, CO. Poster Presentation.
- Spivak, A.C.** and K. Gosselin. 2016. Saltwater ponds: Biogeochemically dynamic components of salt marsh ecosystems. Ocean Sciences Meeting. New Orleans, LA. Oral Presentation.
- ^Capooci, M., K. Gosselin, **A.C. Spivak**. 2016. Salt marsh ecosystem responses to restored tidal connectivity across a 14y chronosequence. Ocean Sciences Meeting. New Orleans, LA. Poster Presentation.
- Gonneea, M., K. Kroeger, D. Rogers, **A.C. Spivak**. 2016. Carbon burial in salt marshes: Impacts of sea level rise and marsh restoration. Ocean Sciences Meeting. New Orleans, LA. Poster Presentation.

- Spivak, A.C.** and K. Gosselin. 2015. Seasonal biogeochemical dynamics in salt marsh ponds. Coastal and Estuarine Research Federation Meeting. Portland, Oregon. Oral Presentation.
- ^Gosselin, K. and **A.C. Spivak**. 2015. Sediment properties and burial rates in salt marsh ponds. Coastal and Estuarine Research Federation Meeting. Portland, Oregon. Poster Presentation.
- Spivak, A.C.** and J. Ossolinski. 2015. Limited Effects of Nutrient Enrichment on Bacterial Carbon Sources in Intertidal Sediments. Goldschmidt Conference. Prague, Czech Republic. Oral Presentation.
- Kroeger, KD, N.K. Ganju, J.W. Pohlman, Z.A. Wang, M. Gonneea, **A.C. Spivak**, S. Moseman-Valtierra, J. Tang. 2015. Salt marsh blue carbon budgets: Quantifying the role of tidal exchanges of carbon and greenhouse gases. Society of Wetland Scientists Meeting. Providence, RI. Oral Presentation.
- Kroeger, KD, J. Tang, S. Moseman-Valtierra, N.K. Ganju, J.W. Pohlman, M.E. Gonneea, **A.C. Spivak**, Z.A. Wang. 2014. Quantifying salt marsh blue carbon: Research to enable calculation of carbon and greenhouse gas budgets. Restore America's Estuaries. Washington, DC.
- ^Karolewski, J. S., R. Stanley, E. Howard, **A.C. Spivak**. 2014. Benthic Primary Production in a Saltmarsh Pond: Insights from Fluxes of Dissolved Inorganic Carbon and Oxygen. American Geophysical Union, San Francisco, CA. Poster Presentation.
- Coolen, M.J.L., W.D. Orsi, and **A.C. Spivak**. 2014. Gene expression dynamics in thawing permafrost soils. Goldschmidt. Sacramento, CA.
- Spivak, A.C.**, J.L. Reeve, and J.W. Pohlman. 2014. Rapid turnover of carbon recently fixed by the salt marsh grass *Spartina alterniflora*: Insights from a stable isotope probing experiment. Joint Aquatic Sciences Meeting. Portland, OR. Oral Presentation.
- Kroeger, K.D., J.W. Pohlman, N. Ganju, **A.C. Spivak**, Z.A. Wang, A. Green, T.W. Brooks, S. Baldwin, S. Moseman-Valtierra, J. Tang. 2014. Salt marsh carbon budgets: The role of tidal exchanges of dissolved and particulate organic carbon. Joint Aquatic Sciences Meeting. Portland, OR. Oral Presentation.
- ***Spivak, A.C.** 2014. Seasonal and nutrient enrichment effects on carbon exchange between benthic microalgae and bacteria in salt marsh tidal creeks. Annual TIDE Experiment Meeting. Marine Biological Laboratory, Woods Hole, MA. Oral Presentation.
- ***Spivak, A.C.** 2014. Sediment organic matter responds rapidly to habitat quality: Implications for shallow ecosystem recovery from eutrophication. Dauphin Island Sea Lab. Dauphin Island, AL. Oral Presentation.
- Spivak, A.C.** 2014. Eutrophication affects carbon exchange between benthic microalgae and bacteria in salt marsh tidal creeks. Ocean Sciences Meeting. Honolulu, HI. Oral Presentation.
- ^Howard, E.M., R.H. Stanley, **A.C. Spivak**. 2014. The effect of nutrient enrichment on primary production in salt marsh tidal creeks: Insights from triple oxygen isotopes. Ocean Sciences Meeting. Honolulu, HI. Poster Presentation
- ^Reeve, J., **A.C. Spivak**, J.W. Pohlman. 2014. Rapid carbon cycling in an experimental *Spartina alterniflora* system. Ocean Sciences Meeting. Honolulu, HI. Poster Presentation.
- ***Spivak, A.C.** 2013. Sediment organic matter responds rapidly to habitat quality: Implications for shallow ecosystem recovery from eutrophication. WHOI Marine Chemistry & Geochemistry Department Seminar. Woods Hole, MA. Oral Presentation.
- Spivak, A.C.** 2013. Organic matter composition of eutrophic sediment responds rapidly to reduced nutrient loading: A field and mesocosm experiment. Coastal and Estuarine Research Federation Meeting. San Diego, CA. Oral Presentation.
- ***Spivak, A.C.** and R. Stanley. 2013. Exploring nutrient enrichment effects on benthic production and algal-bacterial coupling. Plum Island Ecosystems LTER Annual Meeting. Marine Biological Laboratory. Woods Hole, MA. Oral Presentation.

- Spivak, A.C.** 2013. Recovering from long term eutrophication: Water quality alters sediment biogeochemistry in mesocosm and field experiments. Aquatic Sciences Meeting. New Orleans, LA. Oral Presentation.
- ^Pineda, R.R. and **A.C. Spivak**. 2013. Eutrophication in estuaries causes changes in the quality and quantity of food available to herbivorous invertebrates. Aquatic Sciences Meeting. New Orleans, LA. Oral Presentation.
- ***Spivak, A.C.**, M.J. Vanni, and L. Knoll. 2012. Can detritivorous fish alter carbon dynamics in eutrophic reservoirs? Yale Climate and Energy Initiative Annual Conference: Managing Species for Regulating the Carbon Cycle. New Haven, CT. Oral Presentation.
- ***Spivak, A.C.**, M.J. Vanni, and L. Knoll. 2012. Can detritivorous fish alter carbon dynamics in eutrophic reservoirs? WHOI Biology Department Seminar. Woods Hole, MA. Oral Presentation.
- ***Spivak, A.C.** and M.J. Osland. 2011. Development of sediment organic matter in restored mangrove habitats: Insight from a 20-y chronosequence. Marine Biological Laboratory. Woods Hole, MA. Oral Presentation.
- Spivak, A.C.** and M.J. Vanni. 2010. Water velocity and bioturbation alter sediment resuspension and biogeochemistry in an experimental freshwater mesocosm system. American Geophysical Union Meeting. San Francisco, CA. Poster Presentation.
- Spivak, A.C.** and M.J. Vanni. 2010. Fish disturbance affects sediment resuspension and biogeochemistry. Ecological Society of America Meeting. Pittsburgh, PA. Poster Presentation.
- ***Spivak, A.C.** 2010. Food web diversity alters sediment biogeochemistry in a seagrass habitat. WHOI Marine Chemistry and Geochemistry Department Seminar. Woods Hole, MA.
- ***Spivak, A.C.** 2009. Resource levels and food web composition affect seagrass ecosystem functioning. US EPA Gulf Ecology Division. Gulf Breeze, FL. Oral Presentation.
- Spivak, A.C.**, A. Babler, N. Hayes, L. Knoll, E. Mette, F. Rowland, and M.J. Vanni. 2009. Moving on up: Mesocosm dimensions affect ecosystem properties in simple aquatic experiments. Ecological Society of America Meeting. Albuquerque, NM. Oral Presentation.
- Spivak, A.C.** 2009. Nutrient enrichment and food web composition affect ecosystem metabolism in an experimental seagrass habitat. Great Lakes Regional Biogeochemistry Symposium. Kellogg Biological Station, MI. Oral Presentation.
- Spivak, A.C.** 2008. Bottom-up and top-down controls on sedimentary ecosystem functioning. Eco-DAS VIII Symposium. Honolulu, HI. Oral Presentation.
- Spivak, A.C.**, E.A. Canuel, J.E. Duffy, and J.P. Richardson. 2008. Resource availability, biodiversity, and trophic structure affect nutrient dynamics in an experimental seagrass ecosystem. Ocean Sciences Meeting. Orlando, FL. Oral Presentation.
- Spivak, A.C.**, E.A. Canuel, J.E. Duffy, J.G. Douglass, and J.P. Richardson. 2007. Trophic structure and resource availability alter SOM composition in a seagrass system: A field experiment. Estuarine Research Federation Meeting. Providence, R.I. Oral Presentation.
- Spivak, A.C.** 2006. Top-down and bottom-up effects of community structure on SOM content. EPA STAR Fellows Conference. Washington, DC. Poster Presentation.
- Spivak, A.C.**, E.A. Canuel, J.E. Duffy, and J.P. Richardson. 2006. Evidence of top-down and bottom-up controls on SOM composition in an experimental seagrass system. Ecological Society of America Meeting. Memphis TN. Oral Presentation.
- Spivak, A.C.**, E.A. Canuel, J.E. Duffy, and J.P. Richardson. 2005. Linking community structure to carbon cycling: Evidence of cascading effects in an experimental seagrass system. Estuarine Research Federation Meeting. Norfolk, VA. Oral Presentation.
- Spivak, A.C.**, E.A. Canuel, J.E. Duffy, and J.P. Richardson. 2005. The effects of community structure and resource availability on SOM composition in an experimental seagrass system. Ecological Society of America Meeting. Montreal, Canada. Oral Presentation.

- J.E. Duffy, K.E. France, J.G. Douglass, **A.C. Spivak**, and J.P. Richardson. 2005. Biodiversity and ecosystem functioning in food webs: Insights from seagrass ecosystems. Ecological Society of America Meeting. Montreal, Canada. Oral Presentation.
- Spivak, A.C.**, E.A. Canuel, J.E. Duffy, and J.P. Richardson. 2005. Benthic community structure and carbon cycling in an experimental eelgrass system. Benthic Ecology Meeting. Williamsburg, VA. Oral Presentation.
- ***Spivak, A.C.**, E.A. Canuel, J.E. Duffy, and E.J. Waterson. 2004. Trophic structure, biodiversity, and carbon cycling: Evidence of cascading effects in an experimental eelgrass system. Joint Oceans Research Conference between the ASLO and TOS. Honolulu, HI. Oral Presentation.
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