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EDUCATION.

College of William & Mary, Williamsburg, VA. 2002 – 2008.
Ph.D., Marine Science.

Bryn Mawr College, Bryn Mawr, PA. 1997 – 2001.
A.B., Biology, concentration Environmental Science, with honors. Minor in English.
Magna Cum Laude.

Marine Biological Laboratory, Woods Hole, MA. 9/1999 – 12/1999.
Semester in Environmental Science at the Ecosystems Center.

Boston University, Boston, MA. 6/1999 – 8/1999.
Sea Education Association

PROFESSIONAL POSITIONS.

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

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

Miami University, Oxford, OH. 2008 – 2009. Zoology Department. Postdoctoral Fellow.

College of William & Mary, Virginia Institute of Marine Science, Gloucester Point, VA. 2002-2005. Graduate Assistant.

RESEARCH INTERESTS.

Integrating ecological and biogeochemical processes in order to build a comprehensive understanding of ecosystem functions. Using geochemical tools (e.g. lipid biomarkers, stable isotopes) to evaluate organic matter composition and controls on carbon transfer through food webs. Effects of anthropogenic disturbances on environmental processes, including carbon cycling.

PUBLICATIONS.

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, 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.

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 & 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 & Oceanography* 52(2): 590-602.

TEACHING EXPERIENCE.

Co-instructor: Geochemistry: Marine Sediments (12.743), WHOI, 1/2013 – 5/2013.

Co-instructor: Classic Papers in Chemical Oceanography (12.759), WHOI. 1/2012 – 5/2012.

Teaching Assistant: Fundamentals of Marine Science Lab, William & Mary, VA. 2005.

Teaching Assistant: Introductory Biology Lab, Bryn Mawr College, PA. 8/2000 – 5/2001.

Teaching Assistant: Field Ecology, Bryn Mawr College, PA. 8/2000 – 12/2000.

INVITED SEMINARS AND CONFERENCE PRESENTATIONS.

- Yale Climate and Energy Annual Conference: Managing Species for Regulating the Carbon Cycle. New Haven, CT.
- Marine Biological Laboratory, Woods Hole, MA
- WHOI, Biology Dept., Woods Hole, MA
- WHOI, Marine Chemistry & Geochemistry Dept., Woods Hole, MA

- US EPA, Analytical Chemistry Research Core, Durham, NC; Ecosystems Research Division, Athens, GA; Gulf Ecology Division, Gulf Breeze, FL
- US EPA STAR Fellows Conference, Washington, DC.
- Plum Island Ecosystem LTER Meeting, Woods Hole, MA.
- Eco-DAS VIII Symposium, Honolulu, HI.
- American Geophysical Union
- Ecological Society of America
- American Society of Limnology and Oceanography
- Estuarine Research Federation
- Benthic Ecology Meeting
- Great Lakes Regional Biogeochemistry Symposium