

## **Joshua P. Stone**

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### **Education:**

**Doctor of Philosophy in Marine Science** August 2016  
Virginia Institute of Marine Science (VIMS), The College of William and Mary, VA

**Bachelor of Science in Biology, Bachelor of Arts in Spanish** May 2010  
Messiah College, PA

### **Employment:**

**Assistant Professor, Department of Biological Sciences, University of South Carolina**  
August 2018 – Present

- Tenure-track Assistant Professor in Biological Sciences. Teach undergraduate- and graduate-level courses; advise graduate and undergraduate researchers; conduct research on zooplankton ecology in marine, estuarine, and freshwater environments; and analyze and publish results of research in scientific journals.

**Postdoctoral Researcher, Ohio State University**

February 2017 – June 2018

- Researcher in the Aquatic Ecology Laboratory of the Department of Evolution, Ecology and Organismal Biology. Modeling and analysis of population dynamics and food-web interactions in Lake Erie between zooplankton, phytoplankton, and finfish of commercial and recreational interest. Development and management of SQL database of physical, chemical, and biological data of Lake Erie. Publication of results in scientific journals.

**Senior Marine Scientist, Virginia Institute of Marine Science**

September 2016 – December 2016

- Analysis and modeling of zooplankton population dynamics and response to climate change, statistical analysis of trawl survey data and field and laboratory experiments, publication of results in scientific journals.

**Graduate Research Assistant, Virginia Institute of Marine Science**

August 2010 – August 2016

- Dissertation title: “Population dynamics of gelatinous zooplankton in the Chesapeake Bay and Sargasso Sea, and effects on carbon export”
- Analysis and modeling of zooplankton population dynamics and response to climate change, taxonomic identification of zooplankton, live animal experiments, statistical analysis of trawl survey data and field and laboratory experiments, publication of results in scientific journals and presentation at national and international conferences.
- 5 months total at sea on scientific research cruises to the Sargasso Sea, Amazon River plume, and Southern Ocean. Small boat operations in Chesapeake Bay for zooplankton collections.

**Biological Sciences Aid, GS-05, Blackwater National Wildlife Refuge, Cambridge, MD**  
2006 –2009

- GIS analyses, invasive plant mapping, prescription burn mapping, vegetation surveys, marsh bird observation and nest searching, website maintenance and design, and network and computer support. Included routine small boat operations and navigation.
- Full time during summer months, with additional hours during remainder of the year.

**Geographic Information Systems (GIS) Technician, Land Logics Group LLC, Camp Hill, PA**

February – May 2009

- GIS consulting for development projects with potential environmental impacts.

**Biological Technician, Patuxent Wildlife Research Center, Poplar Island, MD**

April – September 2006

- Conducted bird nest surveys as part of a research and monitoring program of nesting bird colonies.

**Publications (ORCID: 0000-0001-6459-5240):**

- Briland, R.D., **J.P. Stone**, M. Manubolu, J. Lee, S.A. Ludsin. In press. Cyanobacterial blooms modify food web structure and interactions in western Lake Erie. *Harmful Algae*.
- **Stone, J.P.**, D. K. Steinberg, M. C. Fabrizio. 2019. Long-term changes in gelatinous zooplankton in Chesapeake Bay, USA: Environmental controls and interspecific interactions. *Estuaries and Coasts*, 42(2): 513-527.
- **Stone, J.P.**, D. K. Steinberg. 2018. Influence of top-down control in the plankton food web on vertical carbon flux: a case study in the Chesapeake Bay. *Journal of Experimental Marine Biology and Ecology*, 498: 16-24.
- **Stone, J.P.**, D. K. Steinberg. 2016. Salp contributions to vertical carbon flux in the Sargasso Sea. *Deep-Sea Research I*, 113: 90-100.
- **Stone, J.P.**, D.K. Steinberg. 2014. Long-term time-series study of salp population dynamics in the Sargasso Sea. *Marine Ecology Progress Series*, 510:111-127.
- Lefcheck, J.S., M. A. Whalen, T. M. Davenport, **J. P. Stone**, J. E. Duffy. 2013. Physiological effects of diet mixing on consumer fitness: a meta-analysis. *Ecology*, 94(3):565-572.
- Fisher, T.R., T.E. Jordan, K.W. Staver, A.B. Gustafson, A.I. Koskelo, R.J. Fox, A.J. Sutton, T. Kana, K.A. Beckert, **J.P. Stone**, G. McCarty, M. Lang. 2010. The Choptank Basin in Transition: Intensifying Agriculture, Slow Urbanization, and Estuarine Eutrophication, Ed. Michael J. Kennish and Hans W. Paerl. *Coastal Lagoons: Critical Habitats of Environmental Change*. CRC Press, 135-165.
- Stuckert, A.M.M., **J.P. Stone**, J.R. Asper, M.G. Rinker, C.L. Rutt, N.C. Trimmer & E.D. Lindquist. 2009. Microhabitat use and spatial distribution in Picado's Bromeliad Treefrog, *Isthmohyla picadoi* (Anura, Hylidae). *Phyllomedusa*, 8(2):125-134.

**Publications submitted or in preparation:**

- **Stone, J.P.**, K.L. Pangle, S.A. Pothoven, H.A. Vanderploeg, S.B. Brandt, T.O. Höök, T.H. Johengen, S.A. Ludsin. Submitted. Hypoxia's impact on pelagic fish populations in Lake Erie: A tale of two planktivores. *Canadian Journal of Fisheries and Aquatic Sciences*.

- **Stone, J.P.**, S.A. Ludsin, E. Marschall, J. Hood. In prep. Causes and effects of changing zooplankton community sizes in Lake Erie. *Canadian Journal of Fisheries and Aquatic Sciences*.
- **Stone, J.P.**, D. K. Steinberg. In prep. Hyperiid amphipods associated with *Salpa thompsoni* in the western Antarctic Peninsula. *Polar Biology*.

#### **Presentations:**

- **Stone, J.P.**, J.M. Hood, E.A. Marschall, S.A. Ludsin “Response of zooplankton to Human-Induced Rapid Environmental Change (HIREC) in Lake Erie,” 2018 Ocean Sciences Meeting, February 2018, Portland, OR, USA.
- **Stone, J. P.**, M.C. Fabrizio, and D.K. Steinberg “Time series of gelatinous zooplankton in Chesapeake Bay, USA: Environmental controls and interspecific interactions,” ICES/PICES 6<sup>th</sup> Zooplankton Production Symposium, May 2016, Bergen, Norway.
- **Stone, J. P.** and D.K. Steinberg “Influence of top-down control in the plankton food web on vertical carbon flux: a mesocosm study in the Chesapeake Bay,” 2016 Ocean Sciences Meeting, February 2016, New Orleans, LA, USA.
- **Stone, J. P.** and D.K. Steinberg “Jellyfish populations in the Chesapeake Bay,” Virginia Sea Grant Symposium, January 2016, Richmond, VA, USA.
- **Stone, J. P.** and D.K. Steinberg “Salp contribution to carbon export in the Sargasso Sea,” 2015 Aquatic Sciences Meeting, February 2015, Granada, Spain.
- **Stone, J. P.** Biological Sciences departmental seminars. Spring 2012, 2013, 2014, and 2015. Virginia Institute of Marine Science.
- **Stone, J. P.** and D.K. Steinberg “A long-term time-series study of salp population dynamics in the Sargasso Sea,” 4<sup>th</sup> International Jellyfish Bloom Symposium, June 2013, Hiroshima, Japan.
- **Stone, J. P.** “Water quality of non-tidal streams in Dorchester County,” Blackwater NWR Third Annual Science Meeting, March 2006, Cambridge, MD, USA

#### **Awards:**

- Matthew Fontaine Maury Fellowship Award. \$7,900 award recognizing interdisciplinary achievements in marine and environmental scholarship and outstanding publications, thesis, or dissertation work – 2015.
- Virginia Sea Grant Fellowship Award. Two-year, \$80,000 award for graduate research support – 2014 to 2016.
- Dean’s Fellowship Award, VIMS. \$6,000 award recognizing an outstanding Ph.D. student based on strong academic performance and progress in the degree program – 2013.
- William J. Hargis Jr. Fellowship Award, VIMS. \$2,000 annual award recognizing a first-year graduate student based on superior academic performance and exceptional promise in marine research – 2011.
- Hunter B. Andrews Jr. Fellowship from the Virginia Institute of Marine Science Foundation fully supporting tuition and stipend for 3 years – 2010.

#### **Teaching and Academic/Leadership Activities:**

- Professor, University of South Carolina – Principles of Ecology (BIOL 570), Invertebrate Zoology (BIOL/MSCI 510)
- Club Advisor, Ohio State University – Current: Marine Biology at OSU
- Instructor, Ohio State University – ‘Introduction to Aquatic Ecology’, 2017.
- Teaching Assistant, VIMS - ‘Fundamentals of Marine Science- Biological Oceanography’ (including section at William and Mary for undergraduates), and ‘Fundamentals of Marine Science- Physical Oceanography’, 2013.
- Teaching Assistant, Messiah College, ‘Tropical Biology’, located in Costa Rica and Panama, 2009.
- Ecological research on a Panamanian cloud forest treefrog for five weeks as part of a student research team, 2008.
- Member of Messiah College President’s Climate Commitment Task Force. January 2007 to August 2009.