

# JOEL BOSTIC

Frostburg, MD

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## Education

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Ph.D., Marine, Estuarine, and Environmental Science, University of Maryland Center for Environmental Science

Anticipated Graduation Date: 2020-2021

M.S., Marine Science, University of South Carolina

Thesis: *Biodegradation of Highly Weathered Deepwater Horizon Oil*

B.S., Science Education, *Summa Cum Laude*, Western Carolina University

Concentration: Earth Science

Thesis: *Downdrift Impacts of T-head Groin Construction on a Back-barrier Salt Marsh, Hunting Island State Park, SC*

## Experience

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Research Assistant, 2016-present, University of Maryland Center for Environmental Science

Research Assistant, 2015-2016, University of South Carolina  
Global Change Oceanography Lab, Dr. Lori Ziolkowski

Teaching Assistant, 2014-2015, University of South Carolina  
Oceans and Society – Lab Section  
Processes of Global Environmental Change – Lab Section

Guest Lecturer, 2014, University of South Carolina  
Oceans and Society, ~300 students

Research Assistant, 2013, Western Carolina University  
Hydrogeology, Dr. Jerry Miller

Invited participant, 2013, National Science Foundation Research Experience for Undergraduates,  
Middle Tennessee State University

Teaching Assistant, 2013, Western Carolina University  
Methods in Geology – Lab Section

## Awards, Scholarships, and Fellowships

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2016-2021 Recipient, National Science Foundation Graduate Research Fellowship (Deferred Status)

2016-2018 Maryland Sea Grant Research Fellow

2015 Honorable Mention, National Science Foundation Graduate Research Fellowship

2014 Dean's Outstanding Scholar Award, Western Carolina University

Outstanding Prospective Teacher, Western Carolina University

2013 Honors College Undergraduate Research Grant, Western Carolina University

Geosciences and Natural Resources Research Grant, Western Carolina University

Junior Geoscientist of the Year, Western Carolina University

Outstanding Science Education Student, Western Carolina University

Sondra Wise Scholarship

2012 Wesley Bonds Memorial Science Education Scholarship

## Publications

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- Bostic, J.T., Aeppli, C., Swarthout, R.F., Reddy, C.M., Ziolkowski, L.A. 2017. Biodegradation of Highly Weathered *Deepwater Horizon* Oil. Accepted *Marine Pollution Bulletin*.
- Bostic, J.T., Tanner, B.R., and Peek, K.M., 2015. Apparent Downdrift Impacts of T-head Groin Construction on a Salt Marsh, Hunting Island State Park, SC. *Southeastern Geology*, 51(2), 51-64.

## Presentations

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- White, G.\* , Houser, C.,\* Ruggiero, J\*., Kenyon-Sisler, R., Elmore, A., Doty, C., Nelson, D., **Bostic, J.**, Stylinski, C. 2016. Fingerprinting sources of Nitrogen pollution on schoolyards in western Maryland. Maryland Water Monitoring Council Annual Conference.
- Bostic, J., Ziolkowski, L., Reddy, C., Aeppli, C., Swarthout, R., 2016. How bioavailable is highly weathered Deepwater Horizon oil? AGU Ocean Sciences Meeting, New Orleans.
- Bostic, J.T., 2014. Downdrift Impacts of T-head Groin Construction on a Back-barrier Salt Marsh, Hunting Island State Park, SC. Abstract. Geological Society of America Southeast Meeting, Vol. 46, No. 3, p.93.

\*High school students

## Outreach

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| 2016-2017 | STAR/B-WET Educational Outreach <ul style="list-style-type: none"><li>-Implemented research project with 400 students and 18 teachers</li><li>-Provided feedback to student presentations</li></ul>   |
| 2015      | Barrier Islands on the Move! Teacher Workshop <ul style="list-style-type: none"><li>-Developed and co-hosted teacher workshop</li><li>-Workshop focused on lesson plan developed incorporating senior thesis research</li><li>-13 teachers attended</li></ul> |