

Curriculum Vita

BRIAN REED SILLIMAN

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EDUCATION

- 2004 Brown University, Ph.D., Ecology and Evolutionary Biology.
 Advisor: Dr. Mark Bertness
- 1999 University of Virginia, M.S., Environmental Science.
 Advisor: Dr. Jay Zieman
- 1995 University of Virginia, B.A., *Highest Distinction*.
 Environmental Science and History; Philosophy concentration.
 Advisors: Dr. Jay Zieman, Environmental Sciences
 Julian Bond, History

ACADEMIC POSITIONS

- 2005-present Assistant Professor, Department of Biology, University of Florida.
- 2005-present Research Fellow, Center for Advanced Studies in Ecology and Biodiversity,
 Catholic University, Santiago, Chile.
- 2010-2011 Visiting Professor, Royal Netherlands Academy of Arts and Sciences.
- 1998-2005 Instructor, Biology Department, University of Virginia.
 Course: Tropical Marine Biology
- 2007 Visiting Research Fellow, Edith Cowan University, Perth Australia.
- 2004-2005 The Nature Conservancy David Smith Conservation Post Doctoral Fellow
 Advisors: Dr. Peter Karieva (TNC); Dr. Emmett Duffy (William and Mary)
- 2003-2004 Visiting Scientist, Bell-Buruch Marine Field Laboratories, University of South
 Carolina
- 1996-1998 Graduate Academic Advisor, Assistant to Dean of Students, University of
 Virginia.

HONORS

- 2010 Royal Netherlands Academy of Arts and Sciences Visiting Professorship
- 2009 Graduate Student Invited Speaker, Moss Landing Marine Laboratories, Moss
 Landing, California.

- 2009 Top Performer - Alan T. Waterman Award for Top Young Investigator across all Sciences. National Science Foundation.
- 2008 Keynote Speaker: IX International Symposium on Littorinid Biology and Evolution. Vigo, Spain.
- 2007 Visiting Research Fellow, Edith Cowan University, Perth Australia.
- 2007 Young Investigator Seminar Series, Department of Fisheries, University of Washington.
- 2007 Young Investigator Grant, Andrew Mellon Foundation.
- 2006 Distinguished Lecturer, University of Toronto, Biology Department, Guest Lecturer for largest Biology class in North America: 2500 students
- 2006 Young Investigators' Prize, American Society of Naturalist.
- 2005 Graduate Student Invited Speaker, University of South Carolina, Department of Marine Sciences and Biology joint speaker, Columbia, South Carolina.
- 2004 David Smith Post-Doctoral Conservation Fellow, The Nature Conservancy and Society of Conservation Biology.
- 2003 National Oceanic and Atmospheric Administration Walter B. Jones Award for Excellence in Marine Graduate Study.
- 2003 Visiting Scientist Award, Buruch Marine Field Laboratories, University of South Carolina.
- 2003 University Fellow, Brown University.
- 2000 STAR (Science to Achieve Results) Fellow, Environmental Protection Agency.
- 2000 National Oceanic and Atmospheric Administration – National Estuarine Research Reserve (NOAA-NERRS) Graduate Research Fellow.
- 1999 All-University, Seven Society Outstanding Teaching Award, University of Virginia.
- 1999 Dean's award for outstanding leadership and service to the University community, University of Virginia.
- 1999 Raven Society, University of Virginia.
- 1999 Omicron Delta Kappa – National Leadership Honor Society
- 1998 Odum Ecological Research Award, University of Virginia
- 1997 Dupont Fellowship, University of Virginia.

GRANTS

(Total- \$1,967,000; UF – \$1,092,000)

- 2010 Royal Netherlands Academy of Arts and Sciences. \$42,000. B. R. Silliman.
- 2010 National Oceanic and Atmospheric Association. Alligators as Apex Marine Predators. \$60,000. B. R. Silliman and J. Nifong.
- 2010 The Nature Conservancy, Conservation Think Tank. \$10,000. B. R. Silliman.
- 2010 University of Florida, Travel Grant - AAAS Meetings. \$350. B. R. Silliman.
- 2010 University of Florida, University Scholars Program. \$2500. K. Braun and B.R. Silliman.
- 2010 University of Florida, University Scholars Program. \$2500. E. Monaco and B.R. Silliman.
- 2009 University of Florida, Department of Biology, Singer Seed Grant, “Alligators as Apex Predators in a Marine Ecosystem. \$3,000. B. R. Silliman.
- 2009 The Nature Conservancy, Conservation Think Tank. \$10,000. B. R. Silliman.
- 2009 Florida Sea Grant, Newell Seminar Series Special Guest Lecturer – Dr. Jim Estes. \$1,400. B. R. Silliman.
- 2009 NOAA. Crab herbivory and drought interact to cause die-off in southern salt marshes. \$60,000. B. R. Silliman and S. von Montfrans.
- 2009 University of Florida, University Scholars Program. \$2500. M. Hensel and B.R. Silliman.
- 2008 NSF, REU Supplemental grant. “Crab Herbivory and the Structure of Southwestern Atlantic Salt Marsh Plant Communities.” \$14,200 B. R. Silliman.
- 2008 Florida Sea Grant, Newell Seminar Series Special Guest Lecturer – Dr. Peter Mumby. \$1,750. B. R. Silliman.
- 2008 The Nature Conservancy, Conservation Think Tank. \$10,000. B. R. Silliman.
- 2007 Andrew Mellon Foundation, Young Investigator Grant, “Impacts of grazer-facilitated plant disease and physical stress on the structure of plant-dominated coastal ecosystems.” \$300,000. B. R. Silliman.
- 2007 Southeastern Alliance for Graduate Education Program, University of Florida, “Mangrove Range Limitations as assessed by GIS.” \$50,000. B. R. Silliman and L. Fatoyinbo.
- 2007 Southeastern Alliance for Graduate Education Program, University of Florida, “Genetic Connectivity of Caribbean intertidal communities.” \$50,000. B. R. Silliman and Edgardo Diaz-Ferguson.

- 2007 Southeastern Alliance for Graduate Education Program, University of Florida, "Crab mediation of plant competition in South American marshes." \$50,000. B. R. Silliman and P. Daleo.
- 2007 Mount Desert Island Biological Station, Young Investigator Award, \$5000. B. R. Silliman.
- 2006 NSF, LTER panel, "Coastal Landscapes and Climate Change." Georgia Coast Reserve-Long Term Ecological Research Site. \$6,200,000. S. Pennings and 10 other co-PI's including B. R. Silliman (proportion of grant received \$168,540).
- 2006 Danish National Science Foundation. *Gracilaria vermiculophylla*: a new threat to marine ecosystems. \$69,250. Thomsen, M. D. and B. R. Silliman.
- 2006 NSF, Ecology, "Collaborative Research: Crab Herbivory and the Structure of Southwestern Atlantic Salt Marsh Plant Communities." \$262,000. Bertness, M. D. and B. R. Silliman (proportion of grant received \$101,000).
- 2005 Danish National Science Foundation. *Gracilaria vermiculophylla*: a new threat to marine ecosystems. \$53,330. Thomsen, M. D. and B. R. Silliman.
- 2005 University of Florida, Opportunity Fund Grant, "Top-down control in Argentine Marsh Plant Communities." \$30,700. Silliman, B.R.
- 2004 The Nature Conservancy, "Do consumers and drought stress interact to cause die off of southern salt marshes?" \$120,000. Silliman, B. R.
- 2004 Georgia Sea Grant, "Top-down and bottom-up forces interact to cause massive die-off of southern salt marshes." \$121,385. Silliman, B. R. and M. D. Bertness.
- 2002 NSF, Dissertation Improvement Grant, Division of Environmental Biology, "A mechanistic understanding of periwinkle grazing on and control of live *Spartina alterniflora*: implications for top-down control of community structure in southern salt marshes." \$4,125. Silliman, B. R. and M. D. Bertness.
- 2000 NSF, Biological Oceanography, "Top-down control of primary production in East Coast Salt Marshes." National Science Foundation: Biological Oceanography/Ecology \$451,723. Bertness, M. D. and B. R. Silliman.
- 2000 National Oceanic and Atmospheric Administration, "Relative effects of predation and Nitrogen enrichment on the community structure of New England salt marshes." \$80,000. Silliman, B. R. and M. D. Bertness.
- 2000 Environmental Protection Agency, "Top-down versus bottom-up control of community structure in New England salt marshes." \$102,000. Silliman, B. R. and M. D. Bertness.
- 1997 New Jersey Sea Grant: Marsh Ecology Research Program. "Grazing impacts of the coffee bean snail in New England salt marshes." \$15,000. Silliman, B. R. and M. D. Bertness.

BOOKS

Silliman, B. R., T. Grosholtz , and M. D. Bertness, editors. 2009. Human Impacts on Salt Marshes: A Global Perspective. University of California Press.

BOOK REVIEWS

Griffin, J. and B. R. Silliman. 2009. Encyclopedia of Tidepools and Rocky Shores. M. Denny and S. Gaines (eds). **Journal of Experimental Biology and Ecology**.

Griffin, J. and B. R. Silliman. *In press*. Enclosed Experimental Ecosystems and Scale: Tools for Understanding and Managing Coastal Ecosystems. **The Quarterly Review of Biology**.

BOOK CHAPTERS

1. Silliman, B. R. “Salt Marshes Under Global Siege”. *In press*. In Coastal Marine Conservation: Science and Policy. G.C. Ray and J. McCormick-Ray. Wiley, John and Sons Inc.
2. Pennings, S.P. M. Alber, C. Alexander, M. Booth, A. Burd, Wei-Jun Cai, C. Craft, Chester B. DePratter, D. DiIorio, J. T. Hollibaugh, C. Hopkinson, S. B. Joye, C. D. Meile, W. S. Moore, B. Silliman, V. Thompson and J. Wares. South Atlantic Tidal Wetlands. *In review*. The Ecology of Wetlands.
3. Barbier, E., S. Hacker, E. Koch, A. Stier, B. R. Silliman. *In press*. “Estuarine and Coastal Ecosystems and Their Services.” (eds., M. van den Belt and R. Costanza) in the Treatise on Estuarine and Coastal Science (Series eds., E. Wolanski, and D. McLusky), Elsevier.
4. Silliman, B. R., M. D. Bertness and M. Thomsen. “Top-down control and human intensification of consumer pressure in U.S. southern salt marshes.” in B. R. Silliman, T. Grosholz, and M. D. Bertness, editors. 2009. Human Impacts on Salt Marshes: A Global Perspective. University of California Press.
5. Silliman, B. R., T. Grosholz, and M. D. Bertness. “Salt marshes under global siege.” in B. R. Silliman, T. Grosholz, and M. D. Bertness, editors. 2009. Human Impacts on Salt Marshes: A Global Perspective. University of California Press.
6. Silliman, B. R., T. Grosholz, and M. D. Bertness. “An introduction to human impacts on salt marshes: Are marshes at risk?” in B. R. Silliman, T. Grosholz, and M. D. Bertness, editors. 2009. Human Impacts on Salt Marshes: A Global Perspective. University of California Press.
7. Bertness, M. D., B. R. Silliman, C. Holdredge. “Shoreline development and the future of New England salt marsh landscapes.” in B. R. Silliman, T. Grosholz, and M. D. Bertness, editors. 2009. Human Impacts on Salt Marshes: A Global Perspective. University of California Press.
8. Thomsen M.*, S., P. Adams, and B. R. Silliman. “Anthropogenic threats to Australasian coastal salt marshes.” in B. R. Silliman, T. Grosholz, and M. D. Bertness, editors. 2009. Human Impacts on Salt Marshes: A Global Perspective. University of California Press.

9. Broomberg, K.** and B. R. Silliman. “Patterns of salt marsh loss within coastal regions of North America: pre-settlement to present.” in B. R. Silliman, T. Grosholz, and M. D. Bertness, editors. 2009. Human Impacts on Salt Marshes: A Global Perspective. University of California Press.
10. Osgood, D., and B. R. Silliman. “From climate change to snails: potential causes of salt marsh die-back along the U.S. Eastern Seaboard and Gulf Coasts.” in B. R. Silliman, T. Grosholz, and M. D. Bertness, editors. 2009. Human Impacts on Salt Marshes: A Global Perspective. University of California Press.

REFEERED PUBLICATIONS

Silliman mentored *post-doc, ** graduate student, or *** undergraduate student as lead author

In Press:

1. Holdredge, C.**, M. D. Bertness, E. V. Wettberg, B. R. Silliman. *In press*. Differential nutrient uptake abilities underlie a cryptic plant invasion. **Oikos**.
2. Haney, R. A.*, B. R. Silliman and D. M. Rand. *In press*. Nonneutral mitochondrial evolution in the Caribbean reef fish *Halichoeres bivittatus*. **Molecular Phylogenetics and Evolution**.
3. Thomsen M. S., T. Wernberg, A. Altieri A, F. Tuya, D. Gulbransen, K. McGlathery, M. Holmer, B. R. Silliman. *In press*. Habitat cascades: the conceptual context and global relevance of facilitation cascades via habitat formation and modification. **Integrative and Comparative Biology**.
4. Díaz-Ferguson, E.*, J. Wares, B. R. Silliman. *In press*. Genetic connectivity, phylogeography and demographic history of the West Indian Topshell *Cittarium pica*: implications for management and conservation. **PLOS ONE**.
5. Gedan, K. B.*, M. Kirwan, E. Barbier, E. Wolinski and B. R. Silliman. *In press*. Coastal vegetations present and future role in protecting shorelines: An answer to recent challenges to the paradigm. **Journal of Climate Change**.
6. Barbier, E., S. Hacker, E. Koch, A. Stier, B. R. Silliman. *In press*. The Value of Estuarine and Coastal Ecosystem Services. **Ecological Monographs**

2010

7. Granek, E. F. S., Polasky, C. V. Kappel, D. J. Reed, D. M. Stoms, E. W. Koch, C. J. Kennedy, L. A. Cramer, S. D. Hacker, E. B. Barbier, S. Aswani, M. Ruckelshaus, G. M. E. Perillo, B. R. Silliman, N. Muthiga, D. Bael, E. Wolanski. 2010. Ecosystem services as a common language for coastal ecosystem-based management. **Conservation Biology** 24:204-217.

8. Altieri, A.** , B. K. van Wesenbeeck, M.D. Bertness, B. R. Silliman. 2010. Facilitation cascade explains positive relationship between native biodiversity and invasion success. **Ecology**.
9. Alberti, J.** , A. M.. Casariego, P. Daleo, E. Fanjul, B. R. Silliman, M. Bertness, and O. Iribarne. Abiotic stress mediates top-down and bottom-up control in an Argentinean salt marsh. **Oecologia** 163:181-191.
10. Thomsen, M.S*., Wernberg, T., F. Tuya,, A., B. R. Silliman. 2010. Ecological performance and possible origin of a ubiquitous but under-studied gastropod. **Estuarine Coastal and Shelf Science** 87:501-650.
11. Barbour, A. B.** , M. L. Montgomery, A. A. Adamson, E. Díaz-Ferguson, B. R. Silliman. 2010. Mangrove Use by the Invasive Lionfish, *Pterois volitans*. **Marine Ecology Progress Series** 401: 291-294.
12. Díaz-Ferguson, E.* , J. Robinson, B. R. Silliman and J. P. Wares. 2010. Comparative Phylogeography of East Coast American Salt Marsh Communities. **Estuaries and Coast** 33:828-839.

2009

13. Farina, J., B. R. Silliman, M. D. Bertness. 2009. Can Conservation Biologists Rely on Established Community Structure Rules to Manage Novel Systems? ... Not in Salt Marshes. 2009. **Ecological Applications** 19: 413-422.

Summarized and B.R. Silliman quoted in article by Erik Stokstad in *Science* (On the Origins of Ecological Structure, 326: 33-35, 2009).

14. Bromberg-Gedan, K.** , B. R. Silliman, and M.D. Bertness. 2009. Centuries of human-driven change in salt marsh ecosystems. **Ann. Rev. Mar. Sci.** 1: 117-141.
15. Daleo P.** , B. R. Silliman, J. Alberti, A. Canepuccia, M. Escapa, A. Canepuccia, N. Pena, and O. Iribarne. 2009. Top-down control of salt marsh plant production by crab facilitation of fungal infection. **Journal of Plant Ecology** 97:781-787.
16. Koch, E.W., E.D. Barbier, B. R. Silliman, D.J. Reed, G.M.E. Perillo, E.F. Granek, J.H. Primavera, N. Muthiga, C.V. Kappel, C.J. Kennedy, S.D. Hacker, S. Polasky, E. Wolanski, S. Aswani, L.A. Cramer, D. Bael and D.M. Stoms. 2009. Non-linearity in ecosystem services: temporal and spatial variability in coastal protection. **Frontiers in Ecology and the Environment** 7(1): 29-37.
17. Fox, H.E., P. Kareiva, B. R. Silliman, J. Hitt, D. Lytle, B. Halpern, C. Hawkes , J. Lawler, M. Neel, J. Olden, M. Schlaepfer, K. Smith, H. Tallis. 2009. Why fly? Ecologists' sins of emission. **Frontiers in Ecology and the Environment** 7:294-295.
18. Thomsen, M. S.* , K.J. McGlathery, A. Schartschild, B. R. Silliman. 2009. Distribution and ecological role of the non-native macroalgae *Gracilaria vermiculophylla* in Virginia salt marshes. **Biological Invasions**.

19. Thomsen, M.S.*, Wernberg, T., Josefson, A., B. R. Silliman. 2009. Broad-scale abundance patterns of non-indigenous soft-bottom invertebrates in Denmark. **Helgolander Marine Research** 63:159-167.
20. Thomsen, M.S.*, Wernberg, B. R., Silliman, B.R., Tuya, F. 2009. Evidence for impacts of non-indigenous macroalgae: a meta-analysis of experimental field studies. **Journal of Phycology** 45:812-819.
21. Bromberg-Gedan, K.***, and B. R Silliman. 2009. Using Facilitation Theory to Enhance Mangrove Restoration. **Ambio** 38:10.

2008

22. Barbier E. B., E W. Koch, B. R. Silliman, S. D. Hacker, E. Wolanski, J. Primavera, E. Granek, S. Polasky, S. Aswani, L. A. Cramer, D. Stoms, C. Kennedy, D. Bael, C. Kappel, G. M. E. Perillo and D. J. Reed. 2008. Coastal Ecosystem-Based Management with non-linear ecological functions and values. **Science** 319: 321-323.
 - Subject of a companion article by Valiela and Fox, Managing Coastla Weltands in *Science* 319:290-291, 2009.
 - Featured in an article by in the NYTIMES.
23. Barbier E. B., E W. Koch, B. R. Silliman, S. D. Hacker, E. Wolanski, J. Primavera, E. Granek, S. Polasky, S. Aswani, L. A. Cramer, D. Stoms, C. Kennedy, D. Bael, C. Kappel, G. M. E. Perillo and D. J. Reed. 2008.
<http://www.sciencemag.org/cgi/reprint/319/5861/321?ck=nck>. Reply to Comment: Changes Precede Changes in Quantity in Mangrove Forests. **Science**.
24. Barbier E. B., E W. Koch, B. R. Silliman, S. D. Hacker, E. Wolanski, J. Primavera, E. Granek, S. Polasky, S. Aswani, L. A. Cramer, D. Stoms, C. Kennedy, D. Bael, C. Kappel, G. M. E. Perillo and D. J. Reed. 2008. Reply to Comment: Vegetation's Role in Coastal Protection. **Science** 320:177.
25. Alberti, J.***, M. Escapa, O. Iribarne, B. R. Silliman, M. D. Bertness. 2008. Crab herbivory regulation of plant facilitative and competitive processes in Argentine salt marshes. **Ecology** 89:155-164.
26. Daleo P.***, J. Alberti, A. Canepuccia, M. Escapa, E. Fanjul, A. M. Casariego, B. R. Silliman, M. D. Bertness, and O. Iribarne. 2008. The role of mycorrhizal symbiosis on salt marsh plant zonation. **Journal of Ecology** 96:431-437.
27. Bertness, M. D. and B. R. Silliman. 2008. Human Disturbance Driven Consumer Control of Salt Marshes - When Dogma Bites. **Conservation Biology**.
28. Sala, N. ***, M. D. Bertness, and B. R. Silliman. 2008. The Dynamics of Top-down and Bottom-up control in New England salt marshes. **Oikos** 117: 1050-1056.
29. Thomsen M.S.*, T. Wernberg, P. Stæhr, D. Krause-Jense, N. Risgaard-Petersen, and B. R. Silliman. 2008. Non-native macroalgae in Denmark: a national perspective. **Marine Biology Research** 3:61-72.
30. Thomsen, M.S.*, T. Wernberg., P. Stæhr, B. R. Silliman, A. B. Josefson, D. Krause-Jensen, and N. Risgaard-Petersen. 2008. Status and trends of non-indigenous macrobenthic marine species in Denmark. **Aquatic Invasions** 3:133-139.

2007

31. Daleo P.** , E. Fanjul, A. Mendez Casariego, B. R. Silliman, M. D. Bertness, and O. Iribarne. 2007. Ecosystem engineers activate plant-mycorrhizal mutualisms in wetlands. **Ecology Letters** 10:902-908.
32. Halpern, B. S., B. R. Silliman, J. Olden, J. Bruno, and M. D. Bertness. 2007. Positive interactions fundamental to effective restoration and conservation. **Frontiers in Ecology and the Environment** 5:153-160.
33. Grant, J. B., J. D. Olden, J. J. Lawler, C. R. Nelson, and B. R. Silliman. 2007. Academic institutions in the United States and Canada ranked according to research productivity in the field of Conservation Biology. **Conservation Biology** 21:1139-1144.
34. Hildago, F.***, B. R. Silliman, M. C. Bazterrica, and Bertness M. D. 2007. Distribution and feeding of native and exotic predators on rocky shores of Patagonia, Argentina. **Estuaries** 30: 887-895.
35. Thomsen, M.S.* , P. Stæhr, C. Nyberg, D. Krause-Jensen, S. Schwärter, B. R. Silliman. 2007. *Gracilaria vermiculophylla* in northern Europe, with emphasis on Danish conditions, and what to expect in the future. **Aquatic Invasions** 2:83-94.
36. Bazterrica, C.***, B. R. Silliman, C. Crane, F. J. Hidalgo, M. D. Bertness. 2007. Limpet grazing and physical stress on wave-protected Patagonian rocky shores. **Journal of Experimental Marine Biology and Ecology** 353:22-34.
37. Alberti, J.** , M. Escapa, P. Daleo, O. Iribarne, B. R. Silliman, M. Bertness, and C. Costa. 2007. Large-scale herbivory patterns and grazing effects of burrowing crabs in Southwestern Atlantic salt marshes. **Marine Ecology Progress Series** 349:235-243.
38. Haney, R.** , B. R. Silliman, and D. Rand. 2007. A multi-locus assessment of connectivity and historical demography in the bluehead wrasse (*Thalassoma bifasciatum*). **Heredity** 1-9.
39. Thomsen M. S.* , B. R. Silliman, and K. McGlathery. 2007. Spatial variation in recruitment of native and invasive species onto oyster reefs in a temperate soft bottom lagoon. **Estuarine, Coastal and Shelf Science** 72:89-101.

2006

40. Altieri, A.** , B. R. Silliman, and M. D. Bertness. 2007. Hierarchical Facilitation of intertidal cordgrass-mussel bed communities. **American Naturalist** 169:195-206.
41. Haney, R.** , B. R. Silliman, A. Fry, C. Layman and D. Rand. 2006. The Pleistocene history of the sheepshead minnow (*Cyprinodon variegatus*): non-equilibrium evolutionary dynamics within a diversifying species complex. **Molecular Phylogenetics and Evolution**.
42. van de Koppel J., A. H. Altieri, B. R. Silliman, J. F. Bruno, and M. D. Bertness. 2005. Scale-dependent interactions and community structure on cobble beaches. **Ecology Letters** 9:45.

43. Bertness M. D., C. Crain, B. R. Silliman, M. C. Bazterrica, V. Renya, F. Hildago and J. Farina. 2006. The Community Structure and Organization of Western Atlantic Patagonian Rocky Shores. **Ecological Monographs** 76:439-460.

Featured on the cover of Ecological Society of America's Bulletin (04/15/2006).

44. Lawler J. J., J. E. Aukema, J. Grant, B. Halpern, P. Kareiva, C. R., Nelson, J. D. Olden, K. Oleth, M. A. Schlaepfer, B. R. Silliman, and P. Zaradic. 2006. Conservation science: a 20-year report card. **Frontiers in Ecology and the Environment** 4(9): 473-480.

45. Lee, S.*** and B. R. Silliman. 2006. Competitive displacement of a marsh detritivore. **Journal of Experimental Marine Biology and Ecology**.

46. Kilheffer, J., D. J. Gustafson, and B. R. Silliman. 2006. Relative impacts of *Littoraria irrorata* and *Prokelisia marginata* on *Spartina alterniflora* growth. **Estuaries** 26:639-644.

2005

47. Silliman B. R., J. van de Koppel, M. D. Bertness, L. Stanton, and I. Mendelsohn. 2005 Drought, snails, and large-scale die-off of southern U.S. salt marshes. **Science** 310:1803-1806.

-Featured in a science segment by John Nielson on National Public Radio's *All Things Considered* (12/16/2005).

-Subject of an article by Charlotte Schubert in *Naturenews.com* (Snails mount attack on US wetlands, 12/17/2005).

-Subject of an article by Adrienne Appel on *National Geographic.com* (Snail armies mow down stricken marshes, 12/17/2005).

-Subject of an article by Mike Toner in the *The Atlanta Constitution* (Snail blamed for key role in destruction of state's marshes, 12/15/2005).

-Subject of an article in *The Times-Picayune* (Another coastal culprit, 12/20/2005).

-Subject of an article on the *ABCNews.com* (Periwinkle snails harming LA marshes 12/19/2005)

48. Schlaepfer, M.A., J. E. Aukema, J. Grant, B. Halpern, J. Hoekstra, P. Kareiva, J. Lawler, J. C. Manolis, C. R. Nelson, J. D. Olden, B. R. Silliman, S. Stephens, J. Wiens and P. Zaradic. 2005. Re-wilding: a bold plan that needs native megafauna. **Nature** 437:951.

49. Pennings, S. and B. R. Silliman. 2005. Linking biogeography and community ecology: latitudinal variation in plant-herbivore interaction strength. **Ecology** 86:2310-2319.

2004

50. Silliman, B. R. and M. D. Bertness. 2004. Shoreline development drives invasion of *Phragmites australis* and the loss of New England salt marsh plant diversity. **Conservation Biology** 18:1424-1434.

51. Mullan, C., B. R. Silliman, S. Bertness and M. D. Bertness. 2004. Spatial segregation of New England salt marsh plants across an estuarine salinity gradient. **Ecology** 85:2539-2549.

52. Silliman, B. R., C. A. Layman, K. Geyer and J. C. Zieman. 2004. Predation by the black-clawed mud crab, *Panopeus herbstii*, in mid-Atlantic salt marshes: Further evidence for top-down control of community structure. **Estuaries** 27:188-196.
53. Bertness, M. D., G. Trussell, P. J. Ewanchuk, B. R. Silliman, and C. Mullan. 2004. Consumer controlled alternate community states on Gulf of Maine rocky shores. **Ecology** 85:1321-1331.
54. Layman, C.A., D. Arrington, R. Langerhan and B. R. Silliman. 2004. Effects of Estuarine Fragmentation on Fish Assemblage Structure. **Bahamas Journal of Science** 12:29-38.
55. Bertness, M. D., G. Trussell, P. J. Ewanchuk, and B. R. Silliman. 2004. Do Alternate stable states exist on Gulf of Maine rocky intertidal zone? Reply. **Ecology** 85:1160-1165.
56. Trussell, G., P. J. Ewanchuk, M. D. Bertness and B. R. Silliman. 2004. Predator-induced changes in prey behavior drive a trophic cascade in rocky shore tide pools. **Oecologia** 139:427-432.
57. Bertness, M. D., B. R. Silliman and R. Jefferies. 2004. North American salt marshes under siege. **American Scientist** 92: 54-61.
58. Layman, C. A., A. Arrington, R., B. R. Silliman and B. Langerhans. 2004. Degree of fragmentation affects fish assemblage structure in Andros Island (Bahamas) estuaries. **Caribbean Journal of Science** 40:232-244.

2003

59. Silliman, B. R. and S. Y. Newell. Fungal-farming in a snail. 2003. **Proceedings of the National Academy of Sciences (USA)** 100:15643-15648.
- Subject of an article by Susan Milius in *Science News* (New Farmer:Marsh Snails Plow Leaves, 12/03)
 - Subject of an article by Jon Whitfield in *Nature: Science Update* (Snails farm fungus, 12/ 2003)
 - Subject of an article by Andrew Sugden in *Science* (Molluscan Agriculture, 12/ 200)
 - Subject of an article in *The Year in Science, World Book Encyclopedia* (2004)
 - Subject of an article in *Smithsonian National Zoo Magazine*, July/August (2004)
 - Subject of an article in *Canadian Wildlife*, October (2004)
60. Bertness, M. D., G. Trussell, P. J. Ewanchuk, and B. R. Silliman. 2003. Testing for Alternate Stable States on Maine Rocky Shores. **Ecology** 83: 3434–3448.
61. Silliman, B. R. and A. Bortolus. 2003. Underestimation of *Spartina alterniflora* production in Western Atlantic salt marshes. **Oikos** 143: 549-555.
62. Silliman, B. R., C. A. Layman and A. Altieri. 2003. Symbiosis between an Alpheid shrimp and a Xanthid crab in salt marshes of mid-Atlantic states, U. S. A. **Journal of Crustacean Biology** 23:876-879.
63. Layman, C. A., A. Arrington and B. R. Silliman. 2003. Underwater visual census provides “snapshot” assessment of tidal connectivity (Bahamas) 21:2-3. **Ecological Restoration**.

2002

64. Silliman, B. R. and M. D. Bertness. 2002. A Trophic Cascade Regulates Salt Marsh Primary Production. **Proceedings of the National Academy of Sciences (USA)** 99: 10500-10505.

-Topic on a weekly television show on Turner Broadcast System: Southern Coastal Culture (2004)

-Subject of an article on *DiscoveryChannel.com* (Dec. 2002)

-Subject of an article by Allen Breed, *Associated Press* (Crabbers, Scientists, struggle to find answers to a dying ecosystem, Sept. 2002). Featured by *The Sun Sentinel*, *The Providence Journal*, *The Post and Courier*, *Richmond TimeDispatch*, *Washington Times*, *Charlotte Observer*, *Atlanta Journal-Constitution*, *The Oregonian*.

65. Bertness, M. D., P. J. Ewanchuk, and B. R. Silliman. 2002. Anthropogenic Modification of New England Salt Marshes. **Proceedings of the National Academy of Sciences (USA)** 99: 1395-1398

66. Layman, C. A. and B. R. Silliman. 2002. Preliminary survey of the fish fauna in Fresh Creek, Andros, Bahamas. **Bulletin of Marine Science** 70: 199-210.

2001

67. Silliman, B. R. and J. C. Zieman. 2001. Top-down control of *Spartina alterniflora* growth by periwinkle grazing in a Virginia salt marsh. **Ecology** 82: 2830-2845.

MANUSCRIPTS IN REVIEW

Silliman, B. R., M. D. Bertness, M. C. Bazterrica, F. Hidalgo, C. M. Crain, A. Alteiri, M. V. Reyna. *In review*. Climatic Extremes Shift Species Interactions that Regulate Biodiversity. **Biology Letters**.

Tallis H., S. E. Lester, M. Ruckelshaus, M. Plummer, K. McLeod, A. Guerry, S. Andelman, M. Caldwell, M. Conte, S. Copps, R. Fujita, S. Gaines, G. Gelfenbaum, P. Kareiva, M. Papenfus, B. Silliman, L. Wainger, and C. White. *In review*. New metrics for managing and sustaining the Ocean's Bounty. **PLOS BIOLOGY**.

Holdredge, C.**, A. Alteiri, B. R. Silliman, and M.D. Bertness. Interactions among foundation species underlie community organization. *In review*. **Trends in Ecology and Evolution**.

Gedan, K. B., M. D. Bertness, and B. R. Silliman. *In review*. Temperature effects on the productivity of salt marsh cordgrass, *Spartina alterniflora*. **Oikos**

Van de Koppel, J., B. R. Silliman, P. Mumby, M. Rieterk. *In review*. Spatial Processes affect ecosystem responses to climate change. **Frontiers in Ecology and the Environment**.

MANUSCRIPTS IN PREPARATION

Silliman, B. R. Drought stress and eutrophication trigger the marsh cascade. Target Journal: *Ecology Letters*.

Silliman, B. R. Disease-mediated grazer control of plant foundation species: Did marine ecologists miss the boat? target journal: *Ecology Letters*.

Silliman, B. R. and J. von de Koppel. Consumer fronts and overgrazing of plant ecosystems. Target journal: *Trends in Ecology and Evolution*.

Farina, J., B. R. Silliman, M. D. Bertness. Bottom-up regulation of ecosystem structure and process in Chilean salt marshes. Target Journal: *Ecology*.

Silliman, B. R., J. Farina, M. D. Bertness. Human-driven top-down and bottom-up forcing in Chilean salt marshes. Target journal: *Ecological Applications*.

INVITED SYNTHESIS WORKSHOPS

- 2009 Packard Foundation and Stanford University workshop on Ecosystem Based Management: Valuing Services.
- 2007 NCEAS participant: "Measuring ecological, economic, and social values of coastal habitats to inform ecosystem-based management of land-sea interfaces."

ORGANIZED SYMPOSIA and WORKSHOPS

- 2010 Co-Chair for 2nd annual UF Marine Biology Symposium at the Whitney Marine BioScience Lab, St. Augustine, Florida.
- 2009 Symposium co-organizer for 2009 Estuarine Research Federation Meeting "Anthropogenic Impacts on the Health and Services of Tidal Wetlands."
- 2009 Founder and organizer for 1st annual UF Marine Biology Symposium at the Whitney Marine BioScience Lab, St. Augustine, Florida.
- 2008 Think Tank Organizer, TNC-sponsored Conservation: *Conservation Answers*
- 2003 Symposium organizer for 2003 Ecological Society of America meeting: "Anthropogenic modification of North American salt marshes: Causes, Consequences and Recommendations."

INVITED TALKS

- 2010 University of California at Santa Barbara, Department of EE&MB, Santa Barbara, California
- 2010 AAAS Meetings, San Diego, California
- 2009 International Marine Conservation Congress, Washington DC.
- 2009 Davidson College, Department of Biology, Davidson, NC.
- 2009 Moss Landing Marine Laboratory, San Jose California State University Moss Landing, California.
- 2009 University of Florida, Conservation and Wildlife Department, Gainesville, FL.
- 2009 Simon Fraser University, Department of Biology, Bradbury, Vancouver.
- 2009 North Carolina State University, Department of Biology, Raleigh, NC.
- 2008 IX International Symposium on Littorinid Biology and Evolution
Vigo, Spain.
- 2008 University of Central Florida, Department of Biological Sciences, Orlando, Florida.

- 2008 University of Florida, Department of Fisheries, Gainesville, Florida.
 2008 Society of Conservation Biology, Symposium on Ecosystem-Based Management: Integrating Economics and Ecological Approaches, Chattanooga, Tennessee.
 2008 Hawaii Institute of Marine Biology, Oahu, Hawaii.
 2007 National Center for Ecological Analysis, Santa Barbara, California.
 2007 University of Washington, Department of Fisheries, Seattle, Washington.
 2007 Edith Cowan University, School of Natural Resources, Perth, Australia.
 2007 U. C. Davis, Bodega Bay Marine Lab, Bodega Bay, California.
 2007 The Nature Conservancy, Marine Initiative Meeting, Apalachicola, Florida.
 2007 University of South Alabama, Daulphin Island Marine Lab, Mobile, Alabama.
 2006 Yale University, Department of Ecology and Evolutionary Biology, New Haven, Connecticut.
 2006 Dutch Institute of Marine Sciences, Goes, The Netherlands.
 2006 University of Wisconsin, Institute of Limnology, Madison, Wisconsin.
 2006 University of Toronto, Department of Biology, Toronto, Canada.
 2006 University of Toronto, Biology Department, Distinguished Lecturer in Intro Biology Class of 2000 students.
 2006 University of Florida, Whitney BioScience Laboratory – Institutes’ weekly seminar, Marineland, Florida.
 2006 University of Florida, Whitney BioScience Laboratory – Community Outreach monthly seminar, Marineland, Florida.
 2006 Cornell University, Department of Ecology and Evolutionary Biology, Ithaca, New York.
 2006 American Society of Naturalists, Young Investigator Prize Seminar, International Meeting, Stony Brook, New York.
 2006 Hofstra University, Department of Biology, New York, New York.
 2006 University of Chicago, Department of Ecology and Evolutionary Biology, Chicago, Illinois.
 2005 University of Mar del Plata, Department of Biology, Mar del Plata, Argentina.
 2005 University of Florida, Department of Botany, Gainesville, Florida.
 2005 University of South Carolina, Department of Marine Sciences and Biology joint speaker, Columbia, South Carolina (Invited Speaker of Graduate Students).
 2004 University of Alabama, Department of Biology, Tuscolusa, Alabama.
 2004 College of William and Mary, Virginia Institute of Marine Sciences, Williamsburg, Virginia.
 2004 Georgia Tech University, Department of Environmental Sciences, Atlanta, Georgia.
 2004 South Hampton College, Department of Biology, New York.
 2003 University of Patagonia, Puerto Madryn, Department of Biology, Argentina.
 2003 Catholic University, Santiago, Chile

CONTRIBUTED ABSTRACTS

Silliman mentored *post-doc, ** graduate student, or *** undergraduate student as lead author

2010

Silliman, B. R. 2010. Climate change shifts key interactions maintaining local diversity. 38th annual Benthic Ecology Meeting, Wilmington, NC.

Silliman, B. R. 2010. Climate change shifts key interactions maintaining local diversity. University of Florida Marine Biology Symposium, St. Augustine, Florida.

Silliman, B. R., Holdredge, C., Nifong, J. C., van Montfrans, S. 2010. Oceanographic gradients drive predictable spatial variation in recruitment, predation, and the intensity of top-

- down control. GCE-LTER Annual Meeting, Athens, GA.
- Silliman, B. R., Holdredge, C., Nifong, J. C., van Montfrans, S. 2010. Oceanographic gradients drive predictable spatial variation in recruitment, predation, and the intensity of top-down control. University of Florida Marine Biology Meeting, St. Augustine, FL.
- Gedan, K.B.** , Kirwan, M.L., and B.R. Silliman. 2010. Myths and misconceptions of shoreline protection by coastal wetlands. 38th annual Benthic Ecology Meeting, Wilmington, NC.
- Altieri, A.* , B. van Wesenbeeck, M. D. Bertness, and B. R. Silliman. 2010. Facilitation cascade drives positive relationship between biodiversity and invasion success. 38th annual Benthic Ecology Meeting, Wilmington, NC.
- Nifong, J.** and B. R. Silliman. 2010. Alligators as Apex Predators in a Marine Ecosystem. 38th annual Benthic Ecology Meeting, Wilmington, NC.
- Nifong, J.** and B. R. Silliman. 2010. Alligators as Apex Predators in a Marine Ecosystem. Alligators as Apex Predators in a Marine Ecosystem. University of Florida Marine Biology Symposium, St. Augustine, Florida
- Griffin, J.* and B. R. Silliman. 2010. Multiple Predator Effects on the Marsh Primary Production. 38th annual Benthic Ecology Meeting, Wilmington, NC.
- Nifong, J.** and B. R. Silliman. 2010. Alligators as Apex Predators in a Marine Ecosystem. Alligators All Florida Herpetology Conference, Gainesville, Florida.
- Nifong, J.** and B. R. Silliman. 2010. Alligators as Apex Predators in a Marine Ecosystem. Alligators Southeast Partners in Amphibian and Reptile Conservation Meeting, Ocala, Florida.
- Nifong, J.** and B. R. Silliman. 2010. Alligators as Apex Predators in a Marine Ecosystem. Alligators Georgia Coastal Ecosystems Long Term Ecological Research (GCE-LTER) Meeting, Athens, Georgia.
- van Montfrans, S. G.** , and M. Hensel, B.R. Silliman 2010. The role of crab grazing and drought stress in marsh die-off in GA marshes. Annual University of Florida Marine Biology Symposium in Marineland, FL.
- van Montfrans, S. G.** , and M. Hensel, B.R. Silliman. 2010. The role of crab grazing and drought stress in marsh die-off in GA marshes. Annual Georgia Coastal Ecosystems LTER meeting in Athens, GA.

2009

- Silliman, B. R., van Montfrans, S. G., Nifong, J. C., and Holdredge, C. 2009. Oceanographic gradients drive predictable spatial variation in recruitment, predation, and the intensity of top-down control. A poster presented at the NSF midterm funding review for the Georgia Coastal Ecosystems Long-Term Ecological Research site.
- Nifong, J.** and B. R. Silliman. 2009. Alligators as Apex Predators in a Marine Ecosystem. Alligators as Marine Apex Predators. All Florida Herpetology Conference, Gainesville, Florida.
- Nifong, J.** and B. R. Silliman. 2009. Alligators as Top Predators in a Marine Ecosystem. University of Florida 1st Annual Marine Biology Symposium, St. Augustine, Florida.
- Nifong, J.** and B. R. Silliman. 2009. Alligators as Apex Predators in a Marine Ecosystem. Alligators Alligators as Marine Apex Predators (version II), NSF Midterm Funding Review for Georgia Coastal Ecosystems Long-term Ecological Research Site, Sapelo Island, Georgia.
- Nifong, J.** and B. R. Silliman. 2009. Alligators as Apex Predators in a Marine Ecosystem. Alligators Alligators as Marine Apex Predators (version I), Long-term Ecological Research-All Scientist Meeting, Estes Park, Colorado.
- Nifong, J.** and B. R. Silliman. 2009. Using Stable Isotopes in Alligator Ecology, Southeastern Ecology and Evolution Conference, Gainesville, Florida.
- Nifong, J.** and B. R. Silliman. 2009. Alligators as Marine Top Predators, University of Florida 1st Annual Marine Biology Symposium, St. Augustine, Florida.

- Nifong, J.** and B. R. Silliman. 2009. Alligators as Marine Top Predators: A Pilot Study, Georgia Coastal Ecosystems Long Term Ecological Research (GCE-LTER) Meeting, Athens, Georgia.
- Brumer, E.***, and B. R. Silliman. 2009. Grazers and nutrients facilitate fungal infection in a foundation species seagrass. University of Florida 1st Annual Marine Biology Symposium, St. Augustine, Florida.
- Brumer, E.***, and B. R. Silliman. 2009. Grazers and nutrients facilitate fungal infection in a foundation species seagrass. Coastal Ecosystems Long Term Ecological Research (GCE-LTER) Meeting, Athens, Georgia.
- Hensel, M.J. and B.R. Silliman. 2010. Incorporating fungal disease into multiple consumer controls in salt marshes. University of Florida Marine Biology Symposium, St. Augustine, Florida.
- Hensel, M.J., van Montfrans, S.G. and B.R. Silliman. 2009. Feeding preferences of the herbivorous marsh crab, *Sesarma reticulatum*. University of Florida Marine Biology Symposium, St. Augustine, Florida.

PROFESSIONAL SOCIETIES

American Association for the Advancement of Science
 Society of Conservation Biology
 Ecological Society of America
 Benthic Ecological Society
 Estuarine Research Federation

NSF PANELS

2009 Panel Member Science and Technology Center Competition
 2008 Panel Member NSF Biological Oceanography

EDITORIAL SERVICE

2008-2010 Reader Advisory Panel, *Nature*
 2006 Special Subject Editor, *Ecology*

PEER REVIEW

Journals: Nature, Science, PNAS, American Naturalist, Ecology Letters, Ecology, Ecological Applications, Ecological Monographs, Ecosystems, Limnology and Oceanography, Journal of Ecology, Journal of Applied Ecology, Journal of Animal Ecology, Oecologia, Oikos, Marine Ecology Progress Series, Estuaries, Bulletin of Marine Science, Ecography, Marine and Freshwater Research, Revista de Biología Marina y Oceanografía in Chile, Wetland Ecology and Management, Hydrobiologia, Austral Ecology.

Proposals: NSF - Ecosystems, Biological Oceanography, Ecology.
 Sea Grant – Maine, California, Washington, New Jersey.
 NSERC of Canada – Evolution and Ecology,

Books: Seagrass: Biology, Ecology, Functions, and Conservation, editors: T. Larkum, C. Duarte, and J. Orth.

