

CURRICULUM VITAE

1. MARK D. BERTNESS

Robert P. Brown Professor of Biology
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3. Birth Date

July 13, 1949, Tacoma, Washington, USA

4. Education

- B.S. 1971 psychology/chemistry, University of Puget Sound, Tacoma, WA
- M.S. 1975 biology, Western Washington University, Bellingham, Washington. Thesis, "Distributional patterns in natural populations of *Thais lamellosa* and *Thais emarginata*, their behavioral mechanisms, physiological adaptations and ecological significance."
- Ph.D. 1979 evolutionary ecology, University of Maryland, College Park, Maryland. Thesis, "Community dynamics of a tropical hermit crab assemblage."

5. Professional appointments

- 1975-76 Research Associate (biology), Western Washington University
- 1977-79 Visiting Scientist, Smithsonian Tropical Research Institute, Panama.
- 1979 Visiting Scientist, R/V Alpha Helix Morro Expedition
- 1980-92 Assistant – Associate Professor, Brown University
- 1987-2002 Director, Graduate Program in Ecology and Evolutionary Biology
- 1997-2000 Professor, Department of Ecology and Evolutionary Biology
- 2000- Robert P. Brown Professor of Biology
- 2002- Chair, Department of Ecology and Evolutionary Biology
- 2003- Senior Scientist (Brown/MBL Partnership), Marine Biological Laboratory, Woods Hole

2004- 2008 Visiting Chair, University of Groningen, Holland
2004- Senior Fellow, Catholic University of Santiago, Chile

6. Completed Publications:

a. books and monographs

Bertness, M. D. 1999. *The Ecology of Atlantic Shorelines*. 465 pages, Sinauer Associates, Sunderland, Massachusetts.

Bertness, M. D., S. D. Gaines, and M. Hay (Editors). 2001. *Marine Community Ecology*. 550 pages, Sinauer Associates, Sunderland, Massachusetts.

Nybakken, J. and M. D. Bertness. 2004. *Marine Biology: an ecological approach*. Sixth edition. Benjamin Cummings.

Bertness, M.D. 2006. *Atlantic Shoreline Ecology: A Natural History*. Princeton University Press

B.R. Silliman and M. D. Bertness (Editors). 2008. *Human Impacts on Salt Marsh Ecosystems: Causes, Consequences and Solutions*. University of California Press

b. chapters in books

Bertness, M. D. and S. C. Pennings. 2000. *Spatial Variation in Process and Pattern in Salt Marsh Plant Communities*. Pp 39-58, In: *Concepts and Controversies in Tidal Marsh Ecology*, M. Weinstein (ed) Kluwer Press, Boston

Pennings, S.C. and M. D. Bertness. 2001. *Salt Marsh Communities*. In: *Marine Community Ecology*. M. D. Bertness, S.D. Gaines, and M. Hay (Editors). Sinauer Associates, Sunderland Massachusetts.

Bruno, J. and M. D. Bertness. 2001. *Positive Interactions, Facilitations and Foundation Species*. In: *Marine Community Ecology*. M. D. Bertness, S. D. Gaines and M. Hay (Editors). Sinauer Associates, Sunderland Massachusetts.

Adam, P., A. Davy, M. D. Bertness and J. Zedler. 2005. *Salt Marsh Ecosystems*. In: *The Environmental Future of Aquatic Ecosystems*. N. Pullen (Ed) Cambridge Press.

Sanford, E and M.D. Bertness. 2007. Latitudinal Gradients in Biological Interactions. In *Marine Macroecology*, J. Witman and G. Roy (Ed), Oxford Press

Bertness, M.D. and B.R. Silliman. 2007. Shoreline development impacts on salt marsh community process and pattern. In: *Human Impacts on Salt Marsh Ecosystems: Causes, Consequences and Solutions*. B.R. Silliman, and M.D. Bertness (Eds.) University of California Press

Silliman, B.R. and M.D. Bertness. 2007. Will over fishing lead to salt marsh loss? In: *Human Impacts on Salt Marsh Ecosystems: Causes, Consequences and Solutions*. B.R. Silliman, and M.D. Bertness (Eds.) University of California Press

c. Referred journal articles

Bertness, M.D. and D.E. Schneider. 1976. Temperature relations of Puget Sound thais in reference to intertidal distribution. *Veliger* 19(1): 47-58.

Bertness, M.D. 1977. Behavioral and ecological aspects of shore-level size gradients in *Thais lamellosa* and *Thais emarginata*. *Ecology* 58(1): 86-97.

Bertness, M.D. 1980. Growth and mortality in the ribbed mussel, *Geukensia demissa*. *Veliger* 23: 62-69.

Bertness, M.D. 1980. Shell utilization and preference patterns in hermit crabs from the Bay of Panama. *J. exp. mar. Biol. Ecol.* 48:1-16.

Bertness, M.D. 1981. Interference, exploitation, and sexual components of competition in hermit crabs. *J. exp. mar. Biol. Ecol.* 49:189-202.

Bertness, M.D. 1981. Pattern and plasticity in tropical hermit crab reproduction. *Amer. Nat.* 117:754-773.

Bertness, M.D. and C. Cunningham*. 1981. Crab predation and gastropod shell architecture. *J. Exp. Mar. Biol. Ecol.* 50:213-230.

Bertness, M.D. 1981. The influence of shell-type on hermit crab growth rate and clutch size. *Crustaceana* 40:197-205.

Bertness, M.D. 1981. Predation, physical stress, and the organization of a tropical hermit crab community. *Ecology* 62(2): 411-425.

- Bertness, M.D. 1981. Competitive dynamics of a tropical hermit crab assemblage. *Ecology* 62(3): 751-761.
- Bertness, M.D. 1981. Conflicting advantages in resource utilization: the hermit crab housing dilemma. *Amer. Nat.* 118:432-437.
- Bertness, M.D. 1981. Seasonality in hermit crab reproduction in the Bay of Panama. *Biotropica* 13(4): 292-300.
- Bertness, M.D., S.D. Garrity and S.C. Levings. 1981. Predation pressure and gastropod foraging patterns: a latitudinal pattern. *Evolution* 35(5): 995-1007.
- Bertness, M.D. 1982. Shell utilization, predation pressure and thermal stress in Panamanian hermit crabs: an interoceanic comparison. *J. exp. mar. Biol. Ecol.* 64:159-187.
- Bertness, M.D., P.O. Yund*, and A. Brown*. 1983. Snail grazing and the abundance of algal crusts on a sheltered New England rocky beach. *J. exp. mar. Biol. Evol.* 71:147-164.
- Bertness, M.D. 1984. Habitat and community modification by an introduced herbivorous snail. *Ecology* 65(2): 370-381.
- Bertness, M.D. 1984. Ribbed mussels and the productivity of *Spartina alterniflora* in a New England salt marsh. *Ecology* 65:1794-1807.
- Kemp, P.* and M.D. Bertness. 1984. Snail shape and growth rates; evidence for plastic shell allometry in *Littorina littorea*. *Proceedings of the National Academy of Sciences* 81:811-813.
- Hoffman, J.*, J. Katz*, and M.D. Bertness. 1984. Fiddler crab regulation of meiofauna abundance. *J. exp. mar. Biol. Ecol.* 82:161-174.
- Bertness, M.D. and T. Miller*. 1984. The distribution and dynamics of *Uea pugnax* burrows in a New England salt marsh. *J. exp. mar. Biol. Ecol.* 83:211-237.
- Bertness, M.D. 1984. Fiddler crab regulation of *Spartina alterniflora* production on a New England salt marsh. *Ecology* 66: 1042-1055.
- Bertness, M.D. and T. Grosholz*. 1985. Population dynamics of the ribbed mussel, *Geukensia demissa*: the costs and benefits of a clumped distribution. *Oecologia* 67:192-204.
- Ellison, A., M.D. Bertness and T. Miller*. 1985. Belowground dynamics

of the salt marsh cordgrass, *Spartina alterniflora*. *American Journal of Botany* 73(11): 1548-1554.

Metcalf, W.* , A.M. Ellison, and M.D. Bertness. 1986. Seedling success and morphology of *Spartina alterniflora*. *Annals of Botany* 58:249-258.

Bertness, M.D. and A.M. Ellison. 1987. Determinants of pattern in a New England salt marsh plant community. *Ecological Monographs* 57(2):129-147.

Bertness, M.D., C. Wise*, and A.M. Ellison. 1987. Consumer pressure and seed set in New England marsh perennials. *Oecologia* 71:191-200.

Bertness, M.D. 1988. Peat accumulation and the success of marsh plants. *Ecology* 69: 703-713.

Bertness, M.D. 1989. Positive and negative density dependent mortality and the population structure of *Balanus balanoides* in a sheltered habitat. *Ecology* 70: 257-268.

Bertness, M.D. 1991. Interspecific interactions among high marsh perennials. *Ecology* 72:125-137.

Bertness, M.D. 1991. Zonation of *Spartina* spp. in New England salt marshes. *Ecology* 72:138-148.

Stephens, E.G.* and M.D. Bertness. 1990. Mussel facilitation of barnacle survival in a sheltered New England habitat. *J. exp. mar. Biol. Ecol.* 145:33-48.

Yund, P., S.D. Gaines, and M.D. Bertness. 1990. Cylindrical tube traps for larval sampling. *Limnology and Oceanography* 36:1167-1177.

Bertness, M.D., S.D. Gaines, E.G. Stephens*, and P. Yund. 1990. Components of recruitment in populations of acorn barnacles. *J. exp. mar. Biol. Ecol.* 156:199-215.

Bertness, M.D. 1992. The ecology of New England salt marsh plant communities. *American Scientist* 80:260-268.

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Bertness, M.D., L. Gaugh*, and S.W. Shumway. 1992. Salt tolerances and the distribution of plants across a New England salt marsh. *Ecology*, 72:1842-1851.

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| Sanford, E.* , D. Bermudez* , M.D. Bertness, and S.D. Gaines. 1994.
| Flow, food supply and the population dynamics of acorn barnacles.
| *Marine Ecology -Progress Series*.104: 49-62

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Hacker, S. D. and M. D. Bertness. 1995. An herbivore paradox: Why salt marsh aphids live in poor quality plants. *American Naturalist*, 145:192-210

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genetic structure of marsh plant populations. *Oikos* 77:107-116

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Bertness M. D. and G. Leonard. 1997. The role of positive interactions in communities: Lessons from the intertidal. *Ecology* 78: 1978-1989.

Karieva, P. and Bertness, M. D. 1997. Rediscovering the role of positive interactions in communities. *Ecology* 78: 1960

Harley, C*. and M.D. Bertness. 1997. Structural interdependence in marsh plants: united they stand. *Functional Ecology* 10: 654-661

Bertness M. D., S. D. Gaines and S.M. Yeh*. 1998. Making mountains out of barnacles: the causes and consequences of barnacle hummocks. *Ecology* 79: 1382-1394.

Levine J.*, S. J. Brewer and M. D. Bertness.1998. Nutrient availability and the zonation of marsh plant communities. *Journal of Ecology*. 86: 285-292.

Brewer, J. S., J. M. Levine*, and M. D. Bertness. 1997. Effects of biomass removal and elevation on plant species richness in a New England salt marsh. *Oikos* 80: 333-341.

Leonard, G., J.M. Levine*, P. Schmidt and M.D. Bertness. 1998. Flow-generated bottom-up forcing of intertidal community structure in a Maine estuary. *Ecology* 79: 1395-1411.

Leonard, G., P. Yund and M.D. Bertness. 1998. Predator induced structural defenses in the blue mussel. *Ecology* 80: 1-14.

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Leonard, G., P.Ewanchuk, and M. D. Bertness. 1999. How recruitment, interspecific interactions and predation control species borders in a tidal estuary. *Oecologia* 118: 492-502

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Pennings, S. C. and M. D. Bertness. 1999 Using latitudinal variation to examine effects of climate on coastal salt marsh pattern and process. Proceedings of the OECD Workshop on Global Change and Wetlands. *Journal of Biogeochemistry* 3:100-111.

Amsberry, L.* , M. A. Baker, P. J. Ewanchuk and M. D. Bertness. 2000. Clonal integration and the expansion of *Phragmites australis* into New England salt marsh plant communities. *Ecological Applications* 10: 1110-1118.

Emery, N.* , P. Ewanchuk, and M. D. Bertness. 2001 Nutrients, mechanisms of competition and the zonation of plants across salt marsh landscapes. *Ecology* 82: 2471-2485.

Pennings, S. C., E. Siska, and M.D. Bertness. 2001. Latitudinal variation in the palatability of marsh plants. *Ecology* 82: 1344-1359

Schmidt, P., D. Rand, and M. D. Bertness. 2000. Environmental heterogeneity and balancing selection in the acorn barnacle *Semibalanus balanoides*. Proceedings of the Royal Society, Biological Sciences 267(1440) 379-385

Donnelly, J. and M. D. Bertness. 2001. Rapid shoreward encroachment of salt marsh vegetation in response to sea-level rise. *Proceedings of the National Academy of Science* 98: 14218-14223

Bertness, M.D. and P. Ewanchuk. 2002. Latitudinal and Climate-Driven Variation in the Strength and Nature of Biological Interactions. *Oecologia* 132: 392-401.

Silliman, B.R. and M.D. Bertness. 2002. A trophic cascade regulates salt marsh primary production. *Proceedings of the National Academy of Science* 99 (16): 10500-10505.

Bertness, M.D., G. Trussell, P. Ewanchuk and B.R. Silliman. 2002. Do alternate community stable states exist on rocky shores in the Gulf of Maine? *Ecology* 83:3434-3448.

Trussell, G.C., P.J. Ewanchuk, and M.D. Bertness. 2002. Field evidence of trait-mediated indirect interactions in a rocky intertidal food web. *Ecological Letters* 5: 1-5.

Bertness, M.D., P. Ewanchuk, and B.R. Silliman. 2002. Anthropogenic modification of New England salt marsh landscapes. *Proceedings of the National Academy of Science* 99 (3): 1395-1398.

Bruno, J., J.J. Stackowitz, and M. D. Bertness. 2003. Including positive interactions in ecological theory. *Trends in Ecology and Evolution* 18: 119-125

Minchinton, Todd E., Bertness, Mark D. 2003: Disturbance-mediated competition and the spread of *Phragmites australis* in a coastal marsh. *Ecological Applications*: Vol. 13, No. 5, pp. 1400–1416.

Bertness, M.D., Trussell, G.C., Ewanchuk, P.J., Silliman, B.R. and Mullan, C. 2004. Consumer Controlled Alternate Community States on Gulf of Maine Rocky Shores. *Ecology* 85: 1321-1331.

Bertness, M.D., G. Trussell, P. Ewanchuk and B.R. Silliman. 2004. Do alternate community stable states exist on rocky shores in the Gulf of Maine? A reply. *Ecology* 85: 1165-1167.

Pennings, S. C., E. Selig*, L. Houser*, and M. D. Bertness. 2003. Geographic variation in positive and negative interactions among marsh plants. *Ecology* 84:1527-1538.

Ewanchuk, P. J. and M. D. Bertness. 2003. Recovery of a northern New England salt marsh plant community from winter icing. *Oecologia* 136:616-626

Trussell, G.C., P.J. Ewanchuk, and M.D. Bertness. 2003. Trait-mediated effects in rocky intertidal food chains: predator risk cues alter prey feeding rates. *Ecology* 84: 629-640.

Ewanchuk, P. J., and M. D. Bertness. 2004. Structure and Organization of a northern New England salt marsh plant community. *J. Ecology* 92:72-85.

Ewanchuk, P. J., and M. D. Bertness. 2004. Maintenance of high diversity pans in Northern New England salt marshes. *Ecology* 85: 1568-1574.

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Indirect effects mediate consumer control of New England tide pool communities. *Oecologia* 139: 427-432.

Bertness, MD, BR Silliman and R. Jefferies. 2004. Salt marshes under siege. *American Scientist* 92:54-61.

Silliman, B. R. and M. D. Bertness. 2004. Shoreline Development Drives the Invasion of *Phragmites australis* and the Loss of New England Salt Marsh Plant Diversity. *Conservation Biology* 18: 1424-1434.

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Van De Koppel, B.R. Silliman, A. Altieri and M.D. Bertness. 2005. Scale dependent interactions lead to the spatial patterning of cobble beach assemblages. *Ecological Letters* 9: 45-50.

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

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Farina, J., V. Renya, BR. Silliman and MD Bertness. 2008. The community ecology of Chilean salt marsh plant communities. *Ecological Applications* in press

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Bazzterrica. M.C., B.R. Silliman, F.J. Hidalgo, C.M. Crain and M.D. Bertness. 2007. Limpet grazing on physically stressful Patagonian rocky shores. *Journal of Experimental Marine Biology and Ecology* 353 22-34

Alberti J, M, Escapa, P Daleo, O Irbartne, B. Silliman and M. Bertness. 2007. Local and geographic variation in grazing intensity by herbivorous crabs in SW Atlantic salt marshes. *Marine Ecology Progress Series* 349: 235-243.

Holdredge, C., A. Altieri, and M.D. Bertness. 2008. Crab herbivory-driven die off of New England salt marshes

Bertness, M.D. and C. Holdredge. 2008. Substrate-type, crab densities and consumer control of salt marsh primary production on Cape Cod, Massachusetts

*undergraduate coauthors

d. book reviews

Animals of the Tidal Marsh. Franklin C. Daiber. *American Scientist*, 1982, 76:42.

Marine Ecological Processes. Ivan Valiela. *Science*, 1985, 4703:1083-1084.

Marine Ecology: An experimentalist's perspective. Robert T. Paine. *Ecology*, 1995

Concepts and Controversies in Tidal Marsh Ecology, M. Weinstein (ed)

Journal of Experimental Marine Biology and Ecology, 2002

e. invited lectures

- 1979 Smithsonian Tropical Research Institute, Panama.
University of Alberta, Edmonton, Canada.
University of Maryland, College Park, MD
- 1980 Smithsonian Institution, Washington, D.C.
Yale University, New Haven, CT.
- 1981 American Society of Zoologists, Seattle, WA.
Department of Zoology, University of Rhode Island, RI.
- 1982 Graduate School of Oceanography, University of Rhode Island
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- 1984 Vassar College, Poughkeepsie, New York
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- 1985 State University of New York, Stony Brook, NY.
Barrington Conservation Commission, Barrington, RI.
- 1986 Yale University, New Haven, CT.
Nahant Marine Center, Boston, MA.
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- 1987 Cornell University, Ithaca, NY.
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University of Rhode Island
University of Georgia
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 National Institute of Global Climate Change, UC Davis
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 University of Connecticut, Avery Point
 1998 Rhode Island Natural History Survey
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 1999 Bodega Marine Laboratory, Bodega Bay, California
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 2001 Georgia Tech
 Institute of Ecosystem Studies, Millbrook, New York
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 Woods Hole Oceanographic Institute, Coastal Ocean Forum
 University of Utrecht, Netherlands
 U Mass, Boston
 Spartina Invasion Conference, San Francisco
 Western Society of Naturalists, Sonoma, California
 University of New Hampshire
 Mt. Holyoke College
 2005 Hopkins Marine Station, Stanford University
 University Of Massachusetts, Dartmouth
 Groningen University, Ecology Group, Groningen Holland
 University of St Andrews, Scotland
 Brown Woman's Club of Rhode Island
 Georgia Tech
 Brown Club of Connecticut
 McGill University
 Laval University
 Netherlands Royal Institute of Marine Science
 Wellesley University
 2006 University of Mar De Plata, Biology Department, Argentina
 Graduate School of Oceanography, URI
 University of Groningen, Marine Biology Department
 Save the Bay, Providence, RI
 St Francis Xavier University, Nova Scotia
 Scripps Institute of Oceanography
 2007 Rutgers University
 Cal State University, Los Angeles
 Miami University of Ohio
 University of Puget Sound, Tacoma, Wa
 University of New Hampshire
 National Estuarine Research Reserve Annual Meeting
 Bowdoin College
 Southeastern New England Marine Educators
 Boston University
 Massachusetts Audubon
 Marine Biological Laboratory, Woods Hole
 2008 Marine Science Center, Northeastern University

7. Research Grants:

Current Grants

"Is crab herbivory causing the die-off of New England salt marshes? Rhode Island Sea Grant

"Top-Down Control of Southwestern Atlantic Salt Marsh Plant Communities "with Brian Silliman, University of Florida, NSF Ecology Program

"How does shoreline development impact the services provided by New England salt marshes" Rhode Island Sea Grant

"Do Alternate Stable Community States Exist in the Gulf of Maine Rocky Intertidal Zone?" NSF Biological Oceanography.

" A Graduate Training Exchange Between Program between Brown and Argentina" Mellon Foundation

Completed Grants

"The role of *Geukensia demissa* in the productivity and stability of New England salt marshes," National Science Foundation

"Animal-sediment interactions and the productivity and structure of salt marsh communities," National Science Foundation

"The role of *Geukensia demissa* in the productivity and stability of New England salt marshes: supplement," National Science Foundation

"Structure and dynamics of a New England salt marsh plant community," National Science Foundation

"Plant-Animal interactions in Mangrove plant communities," with A. M. Ellison. Center for Field Research

"Patch dynamics of a New England marsh plant community," National Science Foundation

"Causes and consequences of variable recruitment in acorn barnacles," with S. Gaines and R. Geyer (WHOI). National Science Foundation

"Recruitment variation in economically important species," with S. D. Gaines. Rhode Island Sea Grant

"Coastal ecosystems" with S. D. Gaines. Mellon Foundation

"The role of facilitative processes in marsh plant communities" National Science Foundation

"Linkages between oceanographic and benthic population processes" National Science Foundation

"The evolutionary and ecological significance of natural disturbance in a New England salt marsh" with Steven Brewer National Science Foundation

"The dynamics of marine ecosystems" Mellon Foundation with J. Witman

"The molecular genetics of the common acorn barnacle" National Science Foundation

"Climate-driven process and pattern in western Atlantic salt marsh plant communities" DOE with S. Pennings (University of Georgia)

"The role of nutrient limitation in the zonation and structure of New England salt marsh plant communities" National Science Foundation with S. Brewer (University of Mississippi)

"Towards a unified understanding of the invasion of *Phragmites australis* into New England salt marshes" with Todd Minchinton. Rhode Island Sea Grant

"The ecology of New England cobble beach plant communities" National Estuarine Research Reserve Graduate Fellowship support for John Bruno

"Patch persistence and seedling dynamics in a southern Maine marsh" National Estuarine Research Reserve Graduate Fellowship support for Pat Ewanchuk

“Distribution and abundance of forbs across a salt marsh landscape: Relative effects of seed supply, physiological stress and species interactions” NSF dissertation improvement grant for Tatyana Rand

“Keystone facilitation by cordgrass on cobble beach plant communities” NSF dissertation improvement grant for John Bruno

“The biogeography and consequences of positive interactions in New England rocky intertidal communities” NSF Biological Oceanography

“The ecology of the pulmonate snail *Melampus* in New England salt marsh plant communities” National Estuarine Research Reserve Graduate Fellowship support for Brian Silliman

"Contrasting the marine communities of North and South America" Mellon Foundation with Jon Witman

“A long-term monitoring program for Narragansett Bay salt marshes” Rhode Island Sea Grant

“Understanding how salt marsh plant communities are influenced by estuarine salinity gradients” National Estuarine Research Reserve Graduate Fellowship support for Caitlin Mullan

“Top-down control of Primary Production in Georgia Salt marshes” with Brian Silliman, NSF Ecology Program

“Understanding the potential for top-down control in Southeastern salt marshes” with Brian Silliman. Georgia Sea Grant

“Experimental studies of drought effects of New England salt marsh services” National Estuarine Research Reserve Graduate Fellowship support for Kristy Kroecker

“Elucidating the ecology of tidal estuary plant communities for their conservation and management” with Caitlin Mullan Crain. Rhode Island Sea Grant 777

8. Service:

(i) to the University

Concentration Advisor: Aquatic Biology, 1982-84, 1990-91.
Undergraduate Advisor, 1984-86.

Population Biology Seminar series coordinator, Fall 1984, Spring 1987, 1991, 1993, Fall 1996, Spring 1998, Fall 2000, Fall 2001, Fall 2002, Fall 2003, Fall 2006
 Greenhouse Renovation Committee, 1981.
 Greenhouse Supervisor 1992, 2006
 Faculty Search Committees:
 Plant Ecologist, 1981
 Population Ecologist, 1983
 Population Geneticist, 1985
 Ecologist, 1987
 Evolutionary Morphologist, 1988
 Evolutionary Morphologist, 1989
 Marine Ecologist, 1993
 Conservation biologist, 2000, 2007
 Director, Environmental Change Initiative (ECI), 2003
 ECI Junior Faculty, 2005, 2006, 2008
 University Graduate Council 1985-87.
 Brown Continuing Education Program (University Relations)
 "Salt Marshes of Rhode Island," April 1982 with W. Prell (Geology).
 "Belize: Coral Reef Ecology," 1984, 1985.
 High School Teacher Development Program (co-sponsored by the Biology and Education Departments:
 "Rhode Island Shorelines as classrooms," April 1985.
 "Rhode Island Salt Marshes," July 1990
 "Teaching hands-on marine ecology" June 1994
 Director Graduate Program in Ecology and Evolutionary Biology, 1987- 2002
 Academic Priorities Committee, 1999- 2003
 Chair, Department of Ecology and Evolutionary Biology, 2002-
 Chair, Brown/MBL graduate program 2003-2006
 Steering Committee, Environmental Change Initiative 2003-
 Steering Committee, Brown/MBL Institutional Partnership 2003-2006 (chair), 2006- (member)
 Concentration advisor, Marine Biology 2004-
 Search Committee - Director of the Ecosystem Center at the Marine Biological Laboratory at Woods Hole 2005-
 Provost's committee to increase the visibility of undergraduate science 2005

(ii) to the profession

Reviewer for: *Ecology*; *American Naturalist*; *Journal of Experimental Marine Biology and Ecology*; *Journal of Crustacean Biology*; *Science*; *Journal of Chemical Ecology*; *Veliger*; *Biotropica*; *Crustaceana*; *Evolution*; *American Scientist*.
 National Science Foundation (programs in Ecology, Population Biology, and Biological Oceanography).
 Organizing Committee, Population Biologists of New England,

Brown University, 1983.
Editorial Board, Ecology/Ecological Monographs, 1989-92.
Somerset Conservation Commission. 1985-89
Outside Thesis Examiner: SUNY, Stony Brook, University of
Maine (twice), University of Connecticut, University of Alabama
(twice), University of Virginia, University of Sydney (twice),
University of South Carolina, Colby College (twice), Rutgers
University, University of New Hampshire (twice), University of
Mar Del Plata (twice), Catholic University of Santiago, Chile,
University of Groningen, Holland (three times)
NYC Natural Resource Council, Wetland Advisory Board 1993
Panel Member, NSF Dissertation Improvement Awards
1991,1992,1994
Panel Member, NSF Marine Laboratory and Field Station
Improvement Awards 1992, 1993
National Academy of Science Marine Biodiversity Workshop 1994
Panel Member, NSF Conservation Biology 1995, 1996
Academy of Natural Sciences, Estuarine Research Committee, 1995
Panel Member, NOAA - Sea Grant, Invasive Species Awards
1998
Chair, Editor Search Committee, The American Naturalist 1998
Panel Member, National Estuarine Research Reserve -
Ecological Monitoring Advisory Committee, Ecological Society of
America, 1998
Ecological Monitoring Advisory Committee, Restoring America's
Estuaries, 1999
Scientific Advisory Board, Save the Bay 1999-
Scientific Advisory Board, Narragansett Bay National Estuarine
Research Reserve 1999-
Panel Member, National Estuarine Research Reserve - Invasive
Species Monitoring Advisory Committee, 2001
Advisory Board, Marine Science Center, Northeastern
University 2002-
Steering Committee – NSF North Atlantic Project 2002-
Scientific Advisor to The Nature Conservancy (TNC), developing
a salt marsh conservation strategy for North America 2003-
Scientific Advisor, TNC Rhode Island 2004-
Editorial Board, Estuaries 2004-
Trustee, Marine Biological Association, United Kingdom 2004-
Scientific Advisor, Narragansett Bay National Estuarine
Research Reserve Research Committee 2004-
Scientific Advisor, Georgia Tech Ecosystem Engineering
Workshop 2004-
Scientific Advisor, California Department of the Environment,
Pelagic Organism Decline in San Francisco Bay Advisory
Board, 2005
Organizer, Workshop on Marine Experimental Ecology and
Conservation Biology, University Mar De Plata, Argentina, 2005

Graduate Program Review – SUNY Buffalo 2006
Chair American Naturalist Young Investigator Prize Committee,
2007
Advisory Committee on the Environment for the office of United
States Senator Sheldon Whitehouse (Rhode Island) 2007
Outside Reviewer – Georgia Tech, Department of Biology, 2008

9. Academic honors:

1998 Walter W. Annenburg University Professor
1999 Elizabeth Leduc Prize for Distinguished Teaching in the
Life Sciences
2000 Robert P. Brown Professor of Biology
2002 Designated ISI Web of Science Highly Cited Researcher
in Environmental Science
2003 Eminent Ecologist, University of California, Davis
2003 Distinguished Wetland Ecologist Lecture, Duke University
2004 Visiting Chair in Ecology, University of Groningen,
Holland
Distinguished Ecologist Lecture, Mt Holyoke College
Senior Fellow, Catholic University of Santiago, Chile
2008 Riser Lecture, Marine Science Center, Northeastern
University, Nahant, Mass

10. Teaching

Bio 19: Freshman Seminar in Tropical Biology, fall semester 2004,
2005, 2006, 2007. responsible for all lectures, laboratories and
field trips, ~10 students

Bio 41: Invertebrate Zoology, fall semesters 1980 to present,
responsible for all lectures and laboratories, 35-40 students/year

Bio 144: Marine Ecology, spring semesters in even numbered years 1980 to
present, 15 students/year

Bio 195: Independent Study. I typically have 2-4 undergraduates doing
independent projects in my lab at any given time

Bio 294: Graduate Seminar. I teach this course ~ every 3 or 4 years,
12 student/year

Bio 295: Graduate Student Tropical Field Course. I teach this course
every 2-3 years, 1991 to present 12-15 students/year

ES 150: Human Impacts on Ecosystem Services. With Osvaldo Sala.

Spring Semester. 20-30 students/year. Course showcasing Brown and Marine Biological Laboratory research on Human impacts on natural systems 2005- present

Undergraduate Honors Theses – on average 2-3/year

I typically have 5-10 advises/year

In addition to my teaching at Brown, over the past 6 years (1999-) with support from the Mellon Foundation and NSF I have been the primary advisor to 4 Argentinean graduate students and on the thesis committee of 3 others.

Also, as part of my duties as visiting chair in Ecology at the University of Groningen, Holland I serve as an advisor to a half dozen Dutch doctoral students

Many undergraduate researchers from my laboratory have gone on to highly successful careers in ecology and evolutionary biology including:

Cliff Cunningham, professor, Duke University
Edwin Grosholz, associate professor, UC Davis
Steve Pennings, associate professor, University of Houston
Laura Gough, associate professor, U West Texas
Elizabeth Farnsworth, Bullard Fellow, Harvard
Tecumseh Fitch, associate Professor, University of St Andrews
Chris Harley, assistant professor at U British Columbia
Eric Sanford, assistant professor at UC Davis
Kelly Benoit, assistant professor, Oregon State University
Eric Berlow, research assistant professor, UC Berkeley
Jonathan Levine, assistant professor, UC Santa Barbara

Graduate Students: 15 total

A. M. Ellison, Ph.D., 1986 – Professor, Harvard University
F. M. Thomas, M.S., 1987 – Professor, University of South Florida
D. Hirata, M.S., 1990 – stockbroker and magician, San Francisco
S. W. Shumway, Ph.D., 1991 – Professor, Wheaton College
P. Halpin, Ph.D., 1994 – Senior Researcher, UC Santa Barbara
S. Hacker Ph.D., 1996 – Associate Professor, Oregon State University
M. Baker M.S., 1996 – high school biology teacher, Portland, OR
G. Leonard, Ph.D. 1998 – research scientist Monterey Bay Aquarium
T. Rand, Ph.D., 2000 – Postdoctoral Researcher, University of Dresden
P. Ewanchuk, Ph.D. 2002 - Assistant professor Providence College
J. Bruno, Ph.D., 2000 – Assistant professor, UNC, Chapel Hill
B. Silliman Ph.D. 2004 - Assistant professor, University of Florida
C. Crain Ph.D. 2006 –Postdoctoral Researcher, UC Santa Cruz
K. Bromberg (current)

Post-doctoral Associates: 12 total

Phil Yund, 1987-88 – Director, University of New England Marine Research Lab

Rick Wahle 1990 – Senior scientist Bigelow Marine Lab

Steve Brewer 1993-95 – Professor, University of Mississippi, Oxford

Todd Minchinton 1996-98 – Assistant professor, University of Adelaide

Geoff Trussell 1998- 2001 – Assistant professor, Northeastern University

Alejandro Bortolus 2001-2003 – Research scientist, University of Central Patagonia

Cesar Costa 2001- 2002 – Professor, University of Rio Grande, Brazil

Eric Sanford 2002- 2004 - Assistant professor, UC Davis

Johan Van de Koppel 2003-2004 – Research scientist Netherlands Institute of Marine Ecology, Zeeland

Andrew Irving 2005-2007, Postdoctoral Researcher, UC Santa Cruz

Erica Garcia 2006-

Andrew Altieri 2007-