CURRICULUM VITAE

SALLY D. HACKER

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EDUCATION

Ph.D. 1996 Department of Ecology and Evolutionary Biology, Brown University, Providence, RI.
Co-advisors: Dr. Mark Bertness and Dr. Steven Gaines
Title: *Species diversity in a New England salt marsh: significance of positive plant interactions*

M.S. 1988 Department of Zoology, University of Maine, Orono, ME.
Advisor: Dr. Robert Steneck
Title: *The effect of habitat architecture on the abundance and body size scaling of a mobile phytal amphipod,* Gammarellus angulosus *(Rathke).*

B.S. 1984 Department of Zoology, University of Washington, Seattle, WA.

EMPLOYMENT

11-present: Professor, Department of Integrative Biology (formerly Zoology), Oregon State University.
18 Associate Head, Department of Integrative Biology, Oregon State University, Corvallis, OR.
04–11: Associate Professor, Department of Zoology, Oregon State University, Corvallis, OR.
07-09 Chair of Graduate Studies, Department of Zoology, Oregon State University, Corvallis, OR.
02–04: Associate Professor, School of Biological Sciences and Program in Environmental Science, Washington State University Vancouver.
96–02: Assistant Professor, School of Biological Sciences and Program in Environmental Science, Washington State University Vancouver.
94-96: Mellon Graduate Fellowship, Brown University, Providence, RI
92–94: Graduate Teaching Assistant, Brown University, Providence, RI.
91-92: Clare Booth Luce Graduate Fellowship for Women in Science, Brown University, RI.
89–91: Research Technician, Woods Hole Oceanographic Institution, Woods Hole, MA.
85–88: Graduate Teaching Assistant, University of Maine, Orono, ME.

AWARDS/FELLOWSHIPS/RECOGNITION

22: Mote Eminent Scholar Honoree, Mote Marine Lab and Florida State University, Tallahassee, Florida
21: 2021 Honoree, Authors and Editors Recognition, Oregon State University, Corvallis, OR.
17: Elected AAAS Fellow 2017, American Association for the Advancement of Science.
11–17: Co-author of the best-selling textbook, *Ecology* (Bowman and Hacker) (2011, 2014, 2017, 2020, 2023).
17: Co-author of second best-selling introductory biology textbook *Life: The Science of Biology* (Hillis, Heller, Hacker, Hill, Laskowski, Sadava) (2017, 2020, 2023 editions).
06–09: Chair, National Center for Ecological Analysis and Synthesis Science Advisory Board, Santa Barbara, CA.
00: Faculty Research Excellence Award, Washington State University Vancouver, WA.
97: Young Investigator Prize, American Society of Naturalists, Annual Meeting, Boulder, CO.
95: Murray F. Buell Award, Best Student Presentation, Ecological Society of America Meeting, Snowbird, UT.
94–96: Mellon Doctoral Fellowship, Brown University, Providence, RI.
91–92: Clare Boothe Luce Women in Science Fellowship, Brown University, Providence, RI.

TEACHING ASSIGNMENTS

OSU 2004–present: Ecology (BI 370), Marine Biology (BI 450), Community Ecology (IB 594), and Graduate Seminars (Meta-analysis, Species Invasion, Disease Ecology, Generalities in Ecology, Research Presentations, Communicating Science)

WSU Vancouver 1996–2004: General Ecology (Bio 372), Community Ecology (Bot 462/562), Field Ecology (Bot 463/563), and Wetland Ecology (ESRP 490)

SCHOLARSHIP

BOOKS PUBLISHED

9. Bowman, W.D. and **S.D. Hacker**. Forthcoming **2023**. *Ecology, 6th Edition,* Oxford University Press.
   Chapter 9: Population Distribution and Abundance
   Chapter 10: Population Dynamics
   Chapter 11: Population Growth and Regulation
   Chapter 12: Predation and Herbivory
   Chapter 13: Parasitism
   Chapter 14: Competition
   Chapter 15: Mutualism and Commensalism
   Chapter 16: The Nature of Communities
   Chapter 17: Change in Communities
   Chapter 18: Biogeography
   Chapter 19: Species Diversity in Communities
8. Hillis, D.M., H.C. Heller, **S.D. Hacker**, D.W. Hall, M. Laskowski, and D. Sadava. Forthcoming **2023**. *Life: The Science of Biology 13th Edition*, MacMillan Publishers/Oxford University Press.
   Chapter 52: Physical Environment and Biogeography
   Chapter 53: Populations
   Chapter 54: Species Interactions
   Chapter 55: Communities
   Chapter 56: Ecosystem Ecology
   Chapter 57: A Changing Biosphere
7. Bowman, W.D. and **S.D. Hacker**. **2020**. *Ecology, 5th Edition,* Oxford University Press.
   Chapter 9: Population Distribution and Abundance
   Chapter 10: Population Dynamics
   Chapter 11: Population Growth and Regulation
   Chapter 12: Predation and Herbivory
   Chapter 13: Parasitism
   Chapter 14: Competition
   Chapter 15: Mutualism and Commensalism
   Chapter 16: The Nature of Communities
   Chapter 17: Change in Communities
   Chapter 18: Biogeography
   Chapter 19: Species Diversity in Communities
6. Hillis, D.M., H.C. Heller, **S.D. Hacker**, D.W. Hall, M. Laskowski, and D. Sadava. **2020**. *Life: The Science of Biology 12th Edition*, MacMillan Publishers/Oxford University Press.
   Chapter 52: Physical Environment and Biogeography
   Chapter 53: Populations
   Chapter 54: Species Interactions

Chapter 55: Communities
Chapter 56: Ecosystem Ecology
Chapter 57: A Changing Biosphere

5. Sadava, D., D.M. Hillis, H.C. Heller, **S.D. Hacker**. **2017**. *Life: The Science of Biology 11th Edition*, MacMillan Publishers/Sinauer Associates, Sunderland, MA.
Chapter 53: Physical Environment and Biogeography
Chapter 54: Populations
Chapter 55: Species Interactions
Chapter 56: Communities
Chapter 57: Ecosystem Ecology
Chapter 58: A Changing Biosphere

4. Bowman, W.D., **S.D. Hacker**, M.L. Cain. **2017**. *Ecology, 4th Edition,* Sinauer Associates, Sunderland, MA.
Chapter 12: Predation and Herbivory
Chapter 13: Parasitism
Chapter 14: Competition
Chapter 15: Mutualism and Commensalism
Chapter 16: The Nature of Communities
Chapter 17: Change in Communities
Chapter 18: Biogeography
Chapter 19: Species Diversity in Communities

3. Cain, M.L., W.D. Bowman, **S.D. Hacker**. **2014**. *Ecology, 3rd Edition,* Sinauer Associates, Sunderland, MA. 667 pp.
Chapter 16: The Nature of Communities
Chapter 17: Change in Communities
Chapter 18: Biogeography
Chapter 19: Species Diversity in Communities

2. Cain, M.L., W.D. Bowman, and **S.D. Hacker**. **2011.** *Ecology, 2nd Edition,* Sinauer Associates, Sunderland, MA.
Chapter 15: The Nature of Communities
Chapter 16: Change in Communities
Chapter 17: Biogeography
Chapter 18: Species Diversity in Communities

1. Cain, M.L., W.D. Bowman, and **S.D. Hacker**. **2008.** *Ecology, 1st Ed.* Sinauer Associates, Sunderland, MA. 648 pp.
Chapter 15: The Nature of Communities
Chapter 16: Change in Communities
Chapter 17: Biogeography
Chapter 18: Species Diversity in Communities

BOOK REVIEWS PUBLISHED

1. **Hacker, S.D. 2014.** Planning for coastal wetland change: fortress marsh or ecomarsh? **Ecology 95:3453–3454.**

JOURNAL ARTICLES OR BOOK CHAPTERS PUBLISHED

92. Jay, K., **S.D. Hacker**, P.A. Hovenga, L.J. Moore, and P. Ruggiero. **2022**. Sand supply and dune grass species density affect foredune shape along the US Central Atlantic Coast. **Ecosphere**. Doi: 10.1002/ecs2.4256

91. Nguyen, T., D.M. Kling, S.J. Dundas, **S.D. Hacker**, D. K. Lew, P. Ruggiero, and K. Roy. **2022**. Quality over quantity: non-market values of restoring coastal dunes in the US Pacific Northwest. **Land Economics.**

90. Itzkin, M., L. J. Moore, P. Ruggiero, P. A. Hovenga, and **S. D. Hacker**. **2022**. Combining process-based and data-driven approaches to forecast beach and dune change. Environmental Modelling and Software https://doi.org/10.1016/j.envsoft.2022.105404.
89. Magel, C. L., F. Chan, M. Hessing-Lewis, and **S. D. Hacker**. **2022**. Differential responses of eelgrass and macroalgae in Pacific Northwest estuaries following an unprecedented NE Pacific Ocean marine heatwave. **Frontiers in Marine Science**. doi: 10.3389/fmars.2022.838967.
88. Gutierrez, J. L., **S. D. Hacker**, M. A. Coombes, C. Wild, G. H. Pereira-Filho, and M. G. Palomo. **2022**. Chapter 10: Marine Hard Substrate Communities. Pages 232-273 in Pan, J., P. Pratolongo, editors. **Marine Biology: A Functional Approach to the Oceans and their Organisms**. Science Publishers, CRC Press, Boca Raton, FL.
87. Biel, R. and **S.D. Hacker**. **2021**. Warming alters the interaction of two invasive beachgrasses with implications for range shifts and coastal dune functions. **Oecologia** https://doi.org/10.1007/s00442-021-05050-2.
86. Hovenga, P., P. Ruggiero, E. B. Goldstein, **S. D. Hacker**, and L. J. Moore. **2021**. The relative role of constructive and destructive processes in dune evolution on Cape Lookout National Seashore, North Carolina, USA. **Earth Surface Processes and Landforms** 2021:1–17. Doi: 10.1002/esp.5210.
85. Itzkin, M., L. J. Moore, P. Ruggiero, **S. D. Hacker**, and R. Biel**. 2021**. The influence of dune aspect ratio and storm characteristics on dune erosion. **Earth Surface Dynamics** 9: 1223–1237 https://doi.org/10.5194/esurf-9-1223-2021
84. Mostow, R. S., F. Barreto, R. Biel, E. Meyer, and **S. D. Hacker**. **2021**. Discovery of a dune-building hybrid beachgrass (*Ammophila arenaria* × *Ammophila breviligulata*) on the U.S. Pacific Northwest. **Ecosphere** 12(4):e03501. Doi:10.1002/ecs2.3501
83. Menge, B.A., S. Close, **S.D. Hacker**, K. Nielsen, F. Chan. **2020**. Biogeography of macrophyte productivity: effects of oceanic and climate regimes across spatiotemporal scales. **Limnology and Oceanography** doi: 10.1002/lno.11635.
82. Close, S., **S.D. Hacker**, B.A. Menge, F. Chan, K.J. Nielsen. **2020**. Elemental composition of rocky intertidal macrophytes: variation with spatial scale, ocean upwelling, and climate cycles of the California Current System. **Ecosystems**. https://doi.org/10.1007/s10021-020-00484-w
81. Emery, S. M., L. L. Reid, and **S.D. Hacker**. **2020**. Soil nematodes differ in association with native and non-native dune-building grass species. **Applied Soil Ecology.** https://doi.org/10.1016/j.apsoil.2019.06.009.
80. Itzkin, M., L. J. Moore, P. Ruggiero, and **S. D. Hacker**. **2020**. The effect of sand fencing on the morphology of natural dune systems. **Geomorphology** 352:106995. https:/doi.org/10.1016/j.geomorph.2019.106995.
79. **Hacker, S. D. 2019**. Marshes: Salt and Brackish. Handbook of Natural Resources, Second Edition, Taylor & Francis/CRC Press, Boca Raton, FL USA.
78. Bortolus, A., P. Adam, J. Adams, M. Ainouche, D. Ayres, M. Bertness, T. Bouma, J. Bruno, I. Caçador, J. Carlton, J. Castillo, C. Costa, A. Davy, L. Deegan, B. Duarte, E. Figueroa, J. Gerwein, A. Gray, E. Grosholz, **S.D. Hacker**, A. Hughes, E. Mateos-Naranjo, I. Mendelssohn, J. Morris, A. Muñoz-Rodríguez, F. Nieva, L. Levin, B. Li, W. Liu, S. Pennings, A. Pickart, S. Redondo-Gómez, D. Richardson, A. Salmon, E. Schwindt, B. Silliman, E. Sotka, C. Stace, M. Sytsma, O. S. Temmerman, R. E. Turner, I. Valiela, M. Weinstein, J. Weis. **2019**. Supporting *Spartina*: Interdisciplinary perspective shows *Spartina* as a distinct solid genus. **Ecology** e02863 https://doi.org/10.1002/ecy.2863.
77. Lewis, D.J., S.J. Dundas, D.M. Kling, D.K. Lew, and **S.D. Hacker**. **2019**. The value of early and partial gains in threatened species management: Evidence from public preferences for Oregon Coast Coho Salmon recovery. **PLOS One** https://doi.org/10.1371/journal.pone.0220260
76. Biel R.G., **S.D. Hacker**, and P. Ruggiero. **2019**. Elucidating coastal foredune ecomorphodynamics in the US Pacific Northwest via Bayesian networks. **Journal of Geophysical Research: Earth Surface.** 10.1029/2018JF004758.
75**. Hacker S.D.,** B.A. Menge, K.J. Nielsen, F. Chan, and T.C. Gouhier. **2019**. Regional processes are stronger determinants of rocky intertidal community dynamics than local biotic interactions. **Ecology** 100: e02763 https://doi.org/10.1016/j.apsoil.2019.06.009

74. Hovenga, P.A., P. Ruggiero, N. Cohn, K. R. Jay, S. D. Hacker, M. Itzkin, and L. Moore. **2019.** Drivers of dune evolution in Cape Lookout National Seashore, NC. Pages 1283–1296 *in* Wing, P., J. D. Rosati, and M. Vallee. Editors. **Coastal Sediments 2019–Proceedings of the 9th International Conference**, St. Petersburg, FL.
73. Ruggiero, P., N. Cohn, B. Hoonhout, E. Goldstein, S. de Vries, L. Moore, S. Hacker, and O. Duran-Vinent. **2019.** Simulating dune evolution on managed coastlines: exploring management options with the Coastal Recovery from Storms Tool (CReST). **Shore and Beach** 87(2): 36–43**.**
72. **Hacker, S.D**., K.R. Jay, E.B. Goldstein, P. Hovenga, M. Itzkin, L.J. Moore, R.S. Mostow, E.V. Mullins, I. Reeves, and P. Ruggiero. **2019**. Species-specific functional morphology of four US Atlantic coast dune grasses: biogeographic implications for dune shape and coastal protection. **Diversity.** 11, 82, doi:10.3390/d11050082**.**
71. Hayduk, J., **S.D. Hacker**, J.S. Henderson, and F. Tomas Nash. **2019**. Evidence for regional scale controls on eelgrass (*Zostera marina*) and mesograzer community structure in upwelling-influenced estuaries. **Limnology and Oceanography** 64:1120–1134.
70. Barner, A.K., F. Chan, A. Hettinger, **S.D. Hacker**, B. Menge, K. Marshall. **2018**. Generality in multispecies responses to ocean acidification revealed through multiple hypothesis testing. **Global Change Biology**. 2018: 1-14. DOI: 10.111/gcb.14372.
69. Goldstein, E.B., E.V. Mullins, L.J. Moore, R.G. Biel, J.K. Brown, **S.D. Hacker**, K.R. Jay, R.S. Mostow, P. Ruggiero, and J.C. Zinnert. **2018**. Literature-based latitudinal distribution and possible range shifts of two US east coast dune grass species (*Uniola paniculata* and *Ammophila breviligulata*). **PeerJ** 6:e4932; DOI 10.7717/peerj.4932
68. Reimer, J., **S.D. Hacker**, B. A. Menge, and P. Ruggiero. **2018**. Macrophyte wrack on sandy beaches of the US Pacific Northwest is linked to proximity of source habitat, ocean upwelling, and beach morphology. **Marine Ecology Progress Series** 594:263-269.
67. Barner, A. K., K.E. Coblentz, **S.D. Hacker**, and B.A. Menge. **2018**. Fundamental contradictions among observational and experimental estimates of non-trophic species interactions. **Ecology** 99:557-566 doi: 10.1002/ecy.2133
66. Ruggiero, P., **S.D. Hacker**, E. Seabloom, P. Zarnetske. **2018**. The role of vegetation in determining dune morphology, exposure to sea level rise, and storm-induced coastal hazards: A U.S. Pacific Northwest perspective. Chapter 11. Pages 337-362 in Moore, L., B. Murray. **Barrier Dynamics and the Impacts of Climate Change on Barrier Evolution,** Springer.
65. Chan F. J.A., Barth, C.A. Blanchette, R.H. Byrne, F. Chavez, O. Cheriton, R. A. Feely, G. Friederich, B. Gaylord, T. Gouhier, **S.D. Hacker**, T. Hill, G. Hoffman, M.A. McManus, B.A. Menge, K.J. Nielsen, A. Russell, E. Sanford, J. Sevadjian, and L. Washburn. **2017**. Persistent spatial structuring of coastal ocean acidification in the California Current System. **Scientific Reports** 7: DOI:10.1038/s41598-017-02777-y
64. Biel R.G., **S.D. Hacker**, P. Ruggiero, N. Cohn, and E.W. Seabloom. **2017**. Coastal protection and conservation along sandy beaches and dunes: context-dependent tradeoffs in ecosystem services. **Ecosphere** 8: e01791. 10.1002/ecs2.1791
63. Barner, A. K., **S. D. Hacker**, B. A. Menge, and K. J. Nielsen. **2016**. The complex net effect of reciprocal interactions and recruitment facilitation maintains an intertidal kelp community. **Journal of Ecology** 104:33-43
62. Henderson, J., **S.D. Hacker**. **2015**. Buried alive: an invasive seagrass (*Zostera japonica*) changes its reproductive allocation in response to sediment disturbance. **Marine Ecology Progress Series** 532:123–136
61. Zarnetske, P., P. Ruggiero, **S.D. Hacker**, E. Seabloom. **2015**. Coastal foredune evolution: the relative influence of vegetation and sand supply in the US Pacific Northwest. **Journal of the Royal Society Interface** 12: http://dx.doi.org/10.1098/rsif.2015.0017
60. Hessing-Lewis, M., **S.D. Hacker**, B.A. Menge, S. McConville, J. Henderson. **2015**. Are large macroalgal blooms necessarily bad? Nutrient impacts on seagrass in upwelling-influenced estuaries. **Ecological Applications** 25:1330-1347
59. David, A.S., P.L. Zarnetske, **S.D. Hacker**, P. Ruggiero, R.G. Biel, and E.W. Seabloom. **2015**. Invasive congeners

differ in successional impacts across space and time. **PLoS ONE** 10(2): e0117283.doi:10.1371/journal.pone.0117283

58. Menge, B.A., T.C. Gouhier, **S.D. Hacker**, F. Chan and K. Nielsen. **2015**. Are metaecosystems organized hierarchically? A model and test in rocky intertidal habitats. **Ecological Monographs** 85:213–233.
57. Bakker, J.P., K.J. Nielsen, J. Alberti, F. Chan, **S. D. Hacker**, O.O. Iribarne, D.P.J. Kuijper, B.A. Menge, M. Schrama and B. R. Silliman. **2015**. Bottom-Up and Top-Down Interactions in Coastal Interface Systems. Chapter 7. Pages 157-200 in Hanley, T.C. and K.J. La Pierre. **Bottom-Up and Top-Down Interactions across Aquatic and Terrestrial Systems**, Cambridge University Press, Cambridge.
56. **Hacker S.D. 2014**. Salt and brackish marshes. In: **Encyclopedia of Natural Resources**. Taylor and Francis Group, LLC: New York. Doi: 10.1081/E-ENRL-120047521.
55. Hessing-Lewis, M.L., **S.D. Hacker. 2013**. Latitudinal trends in macroalgal blooms and seagrass production in northeast Pacific upwelling-influenced estuaries. **Limnology and Oceanography** 58: 1103–1112.
54. Keammerer, H., **S.D. Hacker. 2013**. Negative and neutral interactions dominate in early life stages and across stress gradients in an Oregon estuary. **Plant Ecology** 214:303-315.
53. Seabloom, E.W., P. Ruggiero, **S.D. Hacker**, J. Mull, P.L. Zarnetske. **2013.** Invasive grasses, climate change, and exposure to storm-wave overtopping in coastal dune ecosystems. **Global Change Biology** 19:824-832.
52. Zarnetske, P., T. Gouhier, **S.D. Hacker**, E. Seabloom, V. Bokil. **2013**. Indirect effects and facilitation among native and non-native species promote invasion success along an environmental stress gradient. **Journal of Ecology** doi: 10.1111/1365-2745.12093.
51. Ruggiero, P., G. M. Kaminksy, **S.D. Hacker**. **2013**. Morphodynamics of prograding beaches. **Coastal Dynamics** 2013:1375–1384
50. Wagner, E., B.R. Dumbauld, **S.D. Hacker**, A.C. Trimble, L.M. Wisehart, J.L. Ruesink. **2012.** Density-dependent effects of an introduced oyster, *Crassostrea gigas*, on a native intertidal seagrass, *Zostera marina*. **Marine Ecology Progress Series** 468:149-160.
49. Ruesink J.L., J. Fitzpatrick, B.R., Dumbauld, **S.D. Hacker**, A.C. Trimble, E.L. Wagner, L.M. Wisehart. **2012.** Life history and morphological shifts in an intertidal seagrass following multiple disturbances**. Journal of Experimental Marine Biology and Ecology** 424-425:25-31
48. Zarnetske, P., **S.D. Hacker**, E.W. Seabloom, P. Ruggiero, J.R. Killian, T.B. Maddux, D. Cox. **2012.** Biophysical feedback mediates effects of invasive grasses on coastal dune shape. **Ecology** 93:1439-1450.
47. Aswani, S., P. Christie, N.A. Muthiga, R. Mahon, J.H. Primavera, L.A. Cramer, E.B. Barbier, E.F. Granek, C. Kennedy, E. Wolanski, and **S.D Hacker**. **2012**. The way forward with ecosystem-based management in tropical contexts: Reconciling with existing management systems. **Marine Policy** 36:1-10.
46. **Hacker S.D.**, P. Zarnetske, E. Seabloom, P. Ruggiero, J. Mull, S. Gerrity, and C. Jones. **2012**. Subtle differences in two non-native congeneric beach grasses significantly affect their colonization, spread, and impact. **Oikos** 121:138–148.
45. Gutierrez J.L., C.G. Jones, J.E. Byers, K.K. Arkema, K. Berkenbusch, J.A. Committo, C.M. Duarte, **S.D. Hacker**, P.J. Hogarth, J.G. Lambrinos, M.G. Palomo, C. Wild, and I.E. Hendriks. **2011**. Physical ecosystem engineers and the functioning of estuaries and coasts. Pages 53-81 *in* C.H.R. Heip, C.J.M., Philippart, and J.J. Middelburg, editors. Volume 7: Functioning of Estuaries and Coastal Ecosystems, in the **Treatise on Estuarine and Coastal Science** (E. Wolanski, and D. McLusky, series editors), Elsevier. DOI: 10.1016/B978-0-12-374711-2.00705-1.
44. Barbier E., **S.D. Hacker**, E. Koch, B. Silliman, and A.D. Stier. **2011**. Estuarine and coastal ecosystems and their services. Pages 109-127 *in* M. van den Belt and R. Costanza, editors. Volume 12: Ecological Economics of Estuaries and Coasts, in the **Treatise on Estuarine and Coastal Science** (E. Wolanski, and D. McLusky, series editors), Elsevier.
43. Ruggiero, P., J. Mull, P. L. Zarnetske, S. D. Hacker, and E. W. Seabloom. **2011.** Interannual to decadal foredune evolution. Pages 698–711 in Wang, P., J. D. Rosati, T. M. Roberts, editors. **Coastal Sediments 2011, Proceedings of Coastal Sediments, Miami, FL.**

42. Gouhier, T. C., B. A. Menge, **S.D. Hacker. 2011.** Recruitment facilitation can promote coexistence and buffer population growth in metacommunities. **Ecology Letters** 14: 1201–1210.
41. Menge, B.A., **S.D. Hacker**, T. Freidenburg, J. Lubchenco, R. Craig, G. Rilov, M. Noble, E. Richmond. **2011.** Potential impact of climate-related changes is buffered by differential responses to recruitment and interactions. **Ecological Monographs** 81:493–509.
40. Moulton O.M. and **S.D. Hacker**. **2011**. Congeneric variation and environmental gradients influence community structure: Surfgrasses and macroinvertebrates along the Oregon coast. **Marine Ecology Progress Series** 433:53–63.
39. Hessing-Lewis M., **S.D. Hacker**, B.A. Menge, S. Rumrill. **2011**. Context dependent eelgrass-macroalgae interactions along an estuarine gradient in the Pacific Northwest, USA. **Estuaries and Coasts** 34:1169–1181.
38. Guarderas A.P., **S.D. Hacker**, and J. Lubchenco. **2011**. Analysis of the ecological effects of marine reserves in Latin America and the Caribbean. **Marine Ecology Progress Series** 429:219–225.
37. Barbier E., **S.D. Hacker**, C. Kennedy, E. Koch, B. Silliman, and A.D. Stier. **2011**. The value of estuarine and coastal ecosystem services. **Ecological Monographs** 81:169–193.
36. Zarnetske P.L., E.W. Seabloom, and **S.D. Hacker**. **2010**. Non-target effects of invasive species management: Beach grass, birds, and bulldozers in coastal dunes. **Ecosphere** 1: 13.
35. **Hacker S.D.**, and M.N. Dethier. **2010**. Where do we go from here? Alternative control and restoration trajectories for a marine grass (*Spartina anglica*) invader in different habitat types. Pages 211-216 in Ayres, D. R., D. W. Kerr, S.D. Ericson, and P. R. Olofson (editors). **Proceedings of the 3rd International Conference on Invasive *Spartina*, San Francisco, CA, USA.** San Francisco Estuary Invasive *Spartina* Project of the California State Coastal Commission, Oakland, CA.
34. Foley M.M., B.S. Halpern, F. Micheli, M.H. Armsby, M.R. Caldwell, E. Prahler, D. Sivas, C.M. Crain, N. Rohr, M.W. Beck, M.H. Carr, L.B. Crowder, J.E. Duffy, **S.D. Hacker**, K. McLeod, C.H. Peterson, H.M. Regan, P.A. Sandifer, and R.S. Steneck. **2010**. Guiding ecological principles for marine spatial planning. **Marine Policy** 34: 955-966. DOI: 10.1016/j.marpol.2010.02.001.
33. Ruesink J.L., J-S. Hong, L. Wisehart, **S.D. Hacker**, B.R. Dumbauld, A.C. Trimble, and M. Hessing-Lewis. **2010**. Congener comparison of native (*Zostera marina*) and introduced (*Z. japonica*) eelgrass at multiple scales within a Pacific Northwest estuary. **Biological Invasions** 12: 1773–1789.
32. Granek E., Polasky, S., Barbier, C. Kappel, D. Stoms, D.J. Reed, J. Primavera, E.W. Koch, C. Kennedy, L.A. Cramer, **S.D. Hacker**, G.M.E. Perillo, S. Aswani, B. Silliman, E. Barbier, E. Wolanski, and D. Bael. **2010**. Ecosystem services as a common language for coastal ecosystem-based management. **Conservation Biology** 24: 207-216. DOI: 10.1111/j.1523-1739.2009.01355.x.
31. **Hacker S.D. 2009**. Positive interspecific interactions. In: **Encyclopedia of Life Sciences** (ELS). John Wiley & Sons, Ltd: Chichester. DOI: 10.1002/9780470015902.a0021901.
30. Tallis H.M., J.L. Ruesink, B. Dumbauld, **S.D. Hacker**, and L.M. Wisehart. **2009**. Oysters and aquaculture practices affect eelgrass density and productivity in a Pacific Northwest estuary. **Journal of Shellfish Research** 28: 251–261.
29. Koch E.W., E.B. Barbier, B. Silliman, G.M.E. Perillo, D.J. Reed, **S.D. Hacker**, E. Wolanski, J. Primavera, E. Granek, S. Polasky, S. Aswani, L.A. Cramer, D. Stoms, C. Kennedy, D. Bael, and C. Kappel. **2009**. Nonlinearity in ecosystem services: temporal and spatial variability in coastal protection. **Frontiers in Ecology and the Environment** 7:29–37. DOI: 10.1890/080126.
28. **Hacker S.D**. and M.N. Dethier. **2009**. Differing consequences of removing ecosystem–modifying invaders: significance of impact and community context to restoration potential. Pages 375–385 in: **Marine Bioinvasions: Ecology, Conservation and Management Perspectives**, Editors: Gil Rilov and Jeffrey Crooks, Springer-Verlag.
27. Barbier E.B., E.W. Koch, B. 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**. Ecological quality changes

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25. Barbier E.B., E.W. Koch, B. 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**. Vegetation's role in coastal protection: Reply. **Science** 320: 176-177.
24. Barbier E.B., E.W. Koch, B. 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.
23. Richardson N.F., J.L. Ruesink, S. Naaem, **S.D. Hacker**, H.M. Tallis, B.R. Dumbauld, and L.M. Wisehart. **2008**. Bacterial abundance and aerobic microbial activity across natural and oyster aquaculture conditions in a northeastern Pacific estuary. **Hydrobiologia** 596:269-278.
22. Wisehart L.M., B.R. Dumbauld, J.L. Ruesink, and **S.D. Hacker**. **2007**. Importance of eelgrass life history stages in response to oyster aquaculture disturbance. **Marine Ecology Progress Series** 344:71-80.
21. **Hacker S.D.** and M.N. Dethier. **2006**. Community modification by a grass invader has differing impacts for marine habitats. **Oikos** 113: 279-286.
20. Dethier M.N. and **S.D. Hacker**. **2005**. Physical factors vs. biotic resistance in controlling the invasion of an estuarine marsh grass. **Ecological Applications**. 15:1273-1283.
19. Dethier M.N. and **S.D. Hacker**. **2004**. Improving management practices for invasive cordgrass in the Pacific Northwest: A case study of *Spartina anglica*. **Washington Sea Grant Program Publication**, Seattle, WA. WSG-AS 04-05. 21pp. http://www.wsg.washington.edu/research/pdfs/spartinaang.pdf
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17. **Hacker S.D**. and M.N. Dethier. **2003**. Community dependent invasion and removal of English cordgrass, *Spartina anglica*, in Puget Sound, Washington. **Botanical Electronic News**. No. 312.
16. **Hacker S.D. 2002**. Positive Interactions. Pages 591-594 in N. Eldridge, editor. **Encyclopedia of Biodiversity**, ABC–CLIO Publishers, Santa Barbara, CA.
15. **Hacker S.D. 2002**. Coastal Wetlands. Pages 234-235 in N. Eldridge, editor. **Encyclopedia of Biodiversity**, ABC–CLIO Publishers, Santa Barbara, CA.
14. **Hacker S.D**., D. Heimer, C.E. Hellquist, T.G. Reeder, B. Reeves, T. Riordan, and M.N. Dethier. **2001**. A marine plant (*Spartina anglica*) invades widely varying habitats: potential mechanisms of invasion and control. **Biological Invasions** 3: 211-217.
13. **Hacker S.D.** and M.D. Bertness. **1999**. Experimental evidence for the factors maintaining plant species diversity in a New England salt marsh. **Ecology** 80: 2064–2073.
12. Wu M.–Y., **S.D. Hacker**, D. Ayres and D.R. Strong. **1999**. Potential of *Prokelisia* spp. as biological control agents of English cordgrass, *Spartina anglica*. **Biological Control** 16: 267–273.
11. Levine J.M., **S.D. Hacker**, C.D.G. Harley and M.D. Bertness. **1998**. Nitrogen effects on an interaction chain in a salt marsh community. **Oecologia** 117: 266–272.
10. **Hacker S.D.** and S.D. Gaines. **1997**. Some implications of direct positive interactions for community species diversity. **Ecology** 78: 1990–2003.
9. Madin L., P. Kremer, **S.D. Hacker**. **1996**. Distribution and vertical migration of salps (Tunicata, Thaliacea) near Bermuda. **Journal of Plankton Research** 18:747–755.
8. **Hacker S.D.** and M.D. Bertness. **1996**. Trophic consequences of a positive plant interaction. **The American Naturalist** 148: 559–575.
7. **Hacker S.D.** and M.D. Bertness. **1995**. Morphological and physiological consequences of a positive plant

interaction. **Ecology** 76: 2165–2175.

6. **Hacker S.D.** and M.D. Bertness. **1995**. A herbivore paradox: why salt marsh aphids live on poor quality plants. **The American Naturalist** 145: 192–210.
5. Bertness M.D. and **S.D. Hacker. 1994**. Physical stress and positive associations among marsh plants. **The American Naturalist** 144: 363–372.
4. Goyet C. and **S.D. Hacker. 1992**. Procedure for calibration of a coulometric system used for total inorganic carbon measurements of seawater. **Marine Chemistry** 38: 37–51.
3. **Hacker S.D.** and L.P. Madin. **1991**. Why habitat architecture and color are important to shrimp living in pelagic *Sargassum*: use of camouflage and plant–part mimicry**. Marine Ecology Progress Series** 70: 143–155.
2. Steneck R.S., **S.D. Hacker**, and M.N. Dethier. **1991**. Mechanisms of competitive dominance between crustose coralline algae: an herbivore-mediated competitive–reversal. **Ecology** 72: 938–950.
1. **Hacker S.D.** and R.S. Steneck. **1990**. Habitat architecture and the abundance and body size–dependent habitat selection of a phytal amphipod. **Ecology** 71: 2269–2285.

GRANTS FUNDED

Title	PI and co-PIs	Agency
32. Fundamental research to advance the understanding and prediction of coastal processes for the US West Coast	Cox PI and co-PIs Evans, Hacker, Haller, Hill, Ozkan-Haller, Ruggiero, Wengrove, Wilson	US Army Corp of Engineers
31. Large scale CoPe: The Cascadia Coastlines and People Hazards Research Hub	Ruggiero PI and 40 project personnel including Hacker	National Science Foundation
30. Impacts of a novel invasive beachgrass hybrid on biodiversity and climate change-induced flooding risk in Pacific Northwest coastal dunes	Askerooth PI (grad student) and co-PI Hacker	NW Climate Adaptation Science Center Research Fellowship Program, DOI
29. Exploring foredune restoration strategies with native and invasive plants to guide management practices on the Oregon coast	Wengrove PI with co-PIs Hacker and Ruggiero	Agricultural Research Foundation, Oregon State University
28. From genes to dunescapes: genetic and ecological consequences of a new "supergrass" hybrid for US Pacific Northwest coast ecosystem services	Hacker PI with co-PI Barreto	Oregon Sea Grant Program, NOAA
27. How do beachgrasses build dunes? Exploring foredune stability with native and invasive grasses to guide management practices on the Oregon coast	Wengrove PI with co-PIs Hacker, Ruggiero	Oregon Sea Grant Program, NOAA
26. Real time kinematic global position system	Ruggiero PI with 7 co-PIs including Hacker	Research Equipment Reserve Fund
25. Optimizing the ecosystem services of US Pacific Northwest coastal beaches and sand dunes through adaptation planning	Ruggiero PI with co-PIs Hacker, Dundas	NOAA/NOS/NCCOS/CRP 2019 Ecological effects of sea level rise
24. Supplemental: The Coastal Recovery from Storms Tool (CREST): A model for assessing the impact of sea level rise on natural and managed beaches and dunes	Ruggiero PI with co-PIs Hacker, Moore	NOAA/NOS/NCCOS/CRP Ecological effects of sea level rise
23. Does ocean productivity contribute to dune ecosystem function? Connecting wrack subsidies to Oregon dune coastal protection and conservation services	Hacker PI with co-PIs Ruggiero, Chan	NOAA Oregon Sea Grant Program

22. A multidisciplinary, integrative approach to valuing ecosystem services from natural infrastructure	Dundas PI with co-PIs Hacker, Lewis, Kling, Cox, Ruggiero, Parrish	NOAA/NOS/NCCOS/CRP
21. The Coastal Recovery from Storms Tool (CREST): A model for assessing the impact of sea level rise on natural and managed beaches and dunes	Ruggiero PI with co-PIs Hacker, Moore	NOAA/NOS/NCCOS/ CSOR 2014 Ecological effects of sea level rise
20. Consequences of climate change for coastal protection and other ecosystem services provided by coastal dunes	Ruggiero PI with co-PIs Hacker, Bolte	NOAA COCA
19. Preparing for climate change in Oregon estuaries: flooding, ecological impacts, and an integrated approach toward adaptive management	Hill PI with co-PIs Hacker, Allen	Oregon Sea Grant Program, NOAA
18. Systems Science in Marine Biology (SSIMBio): Developing the symbiotic anemone *Anthopleura elegantissima* as a systems biology model for studying response to climate change	Novak, Meyer PIs with co-PIs Chan, Denver, Hacker, Menge, Vega Thurber, Weis	Oregon Sea Grant Program, NOAA
17. Systems Science in Marine Biology (SSIMBio): Building a multidisciplinary research, education, and outreach program to study climate change from molecules to ecosystems	Denver, Hacker PIs with co-PIs Chan, Menge, Meyer, Novak, Vega Thurber, Weis	Oregon Sea Grant Program, NOAA
16. Collaborative Research: The role of calcifying algae as a determinant of rocky intertidal macrophyte community structure at a meta-ecosystem scale	Menge PI with co-PIs Hacker, Chan, Nielsen	National Science Foundation
15. Beach grass invasions and coastal flood protection: forecasting the effects of climate change on coastal vulnerability	Hacker PI with co-PIs Seabloom, Ruggiero	EPA, USDA, STAR Program
14. Integrating invasion ecology and dune geomorphology to project coastal vulnerability in Oregon and Washington	Hacker PI with co–PIs Seabloom, Ruggiero	Oregon Sea Grant Program, NOAA
13. Collaborative: Scaling up from community to meta-ecosystem dynamics in the rocky intertidal–a comparative-experimental approach	Menge PI with co-PIs Hacker, Chan, Nielsen	National Science Foundation
12. Scale-dependent and indirect effects of filter feeders on eelgrass: understanding complex ecological interactions to improve environmental impacts of aquaculture	Ruesink PI with co-PIs Hacker, Dumbauld	Western Regional Aquaculture Center, USDA
11. The role of marine-influenced primary producers as mediators to the light environment of eelgrass habitats in the South Slough NERR, Oregon	Hessing-Lewis PI (grad student) with co-PI Hacker	NERRS, Graduate Research fellowship, NOAA
10. Communicating the science of marine reserves to Latin American audiences	Lubchenco PI with co-PIs Hacker, B. Simler	David and Lucile Packard Foundation
9. Invasion and removal of two invasive grasses in Pacific Northwest coastal dune systems	Hacker PI with co–PI E. Seabloom	Oregon Sea Grant Program, NOAA
8. Spartina eradication and education service-learning project–Phase 2	Hacker PI with co–PIs S. Richards, J. Feldman, C. Burt	Washington Sea Grant Program, NOAA
7. Does timing of removal of an invasive marine grass increase successful control and habitat restoration?	Hacker PI with co-PI M. Fleming	M.J. Murdock Charitable Trust, Partners in Science

6. Spartina eradication and education service-learning project: A regional community based partnership	Hacker PI with co–PIs S. Richards, J. Feldman, C. Burt	Washington Sea Grant Program, NOAA
5. Mechanisms of invasion of the English cordgrass, Spartina anglica: seed production and seedling establishment	Hacker PI with co–PI M. Dethier	Washington Sea Grant Program, NOAA
4. Factors controlling plant species diversity in a Pacific Northwest salt marsh	Hacker PI	WSUV and WSU College of Sciences, Mini Grant 2000
3. Predicting the invasion potential and consequences of the cordgrass, Spartina anglica, within Padilla Bay, WA.	Hacker PI with co-PI E. Hellquist	National Estuarine Research Reserve System, Graduate Fellowship
2. Invasion in salt marshes and mud flats in Puget Sound, WA on and eradication of the alien plant, Spartina anglica	Hacker PI with co–PI M. Dethier	National Sea Grant Program, Aquatic Nuisance Species Program, NOAA
1. Pattern of invasion and eradication of the alien plant, *Spartina anglica*, in Puget Sound salt marshes	Hacker PI	WSU, College of Sciences Mini Grant

SUPERVISION OF GRADUATE STUDENT RESEARCH

22. Danielle Whalen, PhD Integrative Biology 2022–2027 Pending.
21. Risa Askerooth, MS Integrative Biology 2020–2023 Pending. Thesis proposal title: The spread and biophysical effects of a novel beachgrass hybrid on coastal dune functions and services in the Pacific Northwest.
20. John Stepanek, 2020–2023 NSF GRFP, PhD Integrative Biology 2018–2023 Pending. Thesis proposal title: Carbon sequestration, invasive beachgrasses, and climate change in Pacific Northwest coastal sand dunes.
19. Zecharian Meunier, 2019–2022 NSF GRFP, Provost Graduate Fellowship, PhD Integrative Biology 2017-2023 Pending. Thesis proposal title: Community assembly, diversity, and stability in rocky intertidal meta-ecosystems.
18. Rebecca Mostow, 2018–2021 NSF GRFP, 2016 Provost Graduate Fellowship, PhD Integrative Biology 2016-2022 COMPLETED. Thesis title: Hybridization of non-native dune-building beachgrasses on the US Pacific Northwest coast: Characterization of functional morphology, hybrid swarm composition, and ecological consequences of *Ammophila arenaria* x *A. breviligulata*.
17. Katya Jay, PhD Integrative Biology 2016–2021 COMPLETED. Thesis title: Investigating the role of dune grasses, carbon storage, and marine nutrient subsidies to the functions and services.
16. Caitlin Magel, 2017-2018 NSF NRT Fellowship, PhD Integrative Biology 2015–2020 COMPLETED. Thesis title: Ecosystem functions of Pacific Northwest estuaries: the role of ocean and watershed drivers in eelgrass and coho salmon dynamics.
15. Vanessa Constant, PhD Integrative Biology 2014–2019 COMPLETED. Thesis title: Coastal Dunes as Metaecosystems: Connecting Marine Subsidies to Dune Ecosystem Functions on the US Pacific Northwest Coast.
14. Reuben Biel, 2011 Provost Graduate Fellowship, 2014 EPA STAR Fellowship, PhD Zoology, 2011–2017 COMPLETED. Thesis title: Coastal Dune Ecology, Geomorphology, and Ecosystem Services: How Invasive Beachgrasses, their Interactions, and Sediment Dynamics Shape U.S. Pacific Northwest Dunes.
13. Jennifer Motley, MS Marine Resource Management, 2014-2017 COMPLETED (Co-advisor: Fiona Tomas Nash). Thesis title: Local and Regional Patterns in Eelgrass (*Zostera marina* L.) Communities Along an Upwelling-Productivity Gradient in Oregon Estuaries, USA.
12. Alison Barner, 2012 EPA STAR Fellowship, PhD Zoology 2010–2016 COMPLETED (Co–advisor: Bruce Menge). Thesis title: Predictability and Constraints on the Structure of Ecological Communities in the Context of Climate Change.
11. Lindsay Carroll, MS Marine Resource Management 2013–2016 COMPLETED. Thesis title: Evaluating Coastal

Protection Services Associated with Restoration Management of an Endangered Shorebird in Oregon, U.S.A.

10. Jessica Reimer, MS Zoology 2011–2014 COMPLETED (Co–advisor: Bruce Menge). Thesis title: Patterns of Macrophyte Wrack Deposition on Sandy Beaches of the Pacific Northwest Coast, U.S.A.
9. Jeremy Henderson, MS Zoology 2010–2013 COMPLETED. Thesis title: Direct Effects and Tradeoffs Affect Vegetative Growth and Sexual Reproduction in an Invasive Seagrass Experiencing Different Disturbance Regimes.
8. Phoebe Zarnetske, NSF IGERT Fellowship, OSU PhD Zoology, 2006–2011 COMPLETED (Co-advisor: Eric Seabloom), Thesis title: The Influence of Biophysical Feedbacks and Species Interactions on Grass Invasions and Coastal Dune Morphology in the Pacific Northwest, USA.
7. Margot Hessing–Lewis, NERRS Graduate Fellowship, OSU PhD Zoology, 2005–2011 COMPLETED (Co–advisor: Bruce Menge), Thesis title: Context Dependent Eelgrass-Macroalgal Interactions in Upwelling-Influenced Estuaries.
6. Orissa Moulton, OSU MS Zoology, 2008–2010 COMPLETED, Thesis title: Surfgrasses (*Phyllospadix* spp.) as Dynamic Foundation Species for Macroinvertebrates Along the Oregon coast.
5. Paulina Guarderas, OSU MS Environmental Science, COMPLETED 2007 (Co-advisor: Jane Lubchenco), Thesis Title: Marine Conservation in Latin America and the Caribbean: An Analysis of Marine Protected Areas (MPAs).
4. Lorena Wisehart, OSU MS Environmental Science, COMPLETED 2006, Thesis Title: Impacts of Oysters on Eelgrass (*Zostera marina* L.): Importance of Early Life History Stages in Response to Aquaculture Disturbance.
3. Nathan Reynolds, WSU Vancouver MS Environmental Science, COMPLETED 2005, Thesis title: Historical Plant Communities of Southwest Washington State.
2. Rebecca Martin, WSU Vancouver MS Environmental Science, COMPLETED 2005, Thesis Title: Identifying Common Stream Characteristics Using Geomorphological Associations on the Gifford Pinchot National Forest: Implications for Management and Restoration.
1. Tabitha Reeder, WSU Vancouver MS Environmental Science, COMPLETED 2002, Thesis Title: Removing a Nonindigenous Marine Plant (*Spartina anglica*): Importance of Habitat Type and Consistent, Long-term Control on Regrowth and Reinvasion.

PROFESSIONAL SERVICE

DEPARTMENTAL, COLLEGE, AND UNIVERSITY SERVICE

21-present:	Member, Executive Committee, Integrative Biology, OSU.
22:	Co-Chair, Graduate Curriculum Committee, Integrative Biology, OSU
22:	Member, Promotion and Tenure Committee, College of Science, OSU.
21-22:	Member, Strategic Planning Committee, College of Science, OSU.
20-21:	Member, Research Committee, College of Science, OSU.
19-21:	Chair, Departmental Newsletter Committee, Integrative Biology, OSU.
18–21:	Member, Promotion and Tenure Committee, College of Science, OSU.
18–20:	Coordinator, Ecampus Zoology degree, Integrative Biology, OSU.
18–20:	Chair, Graduate Curriculum Committee, Integrative Biology, OSU.
17–20:	Member, College of Science Curriculum Committee, OSU.
12–20:	Chair, Undergraduate Curriculum Committee, Integrative Biology, OSU.
14–20:	Member, School of Life Sciences Curriculum Committee, College of Science, OSU.
13-19:	Primary Mentor, Mathew Orr, Integrative Biology, OSU.
18	Diversity, Equity, and Inclusion training (Feb. 7 2018), Integrative Biology, OSU.
17–18:	Member (*ex officio*), Executive Committee, Integrative Biology, OSU.
17–18:	Member (*ex officio*), Space Committee, Integrative Biology, OSU.
17–18:	Member (*ex officio*), Graduate Curriculum Committee, Integrative Biology, OSU.

17–18: Chair, Student Engagement Committee, Integrative Biology, OSU.
15-18: Primary Mentor, Andrew Bouwma, Integrative Biology, OSU.
10-18: Primary Mentor, Sarah Henkel, Integrative Biology, OSU.
17 Co-Chair, Faculty Promotion Committee, Sarah Henkel, Integrative Biology, OSU.
16–17: Member, Annual Peer Review of Faculty, Integrative Biology, OSU
15–16: Member, Personnel Committee, Integrative Biology, OSU.
13–16: Member, *Ad hoc* Marine Studies Strategic Planning Committee, Integrative Biology, OSU.
13-16: Senator, Faculty Senate, College of Science, OSU.
15–16: Chair, Faculty Promotion Committee, Devon Quick, Integrative Biology, OSU.
05-15: Member, HMSC Academic Programs Committee, OSU.
14–15: Co-Chair, Learning Models Subcommittee, Marine Studies Initiative Executive Committee, OSU
13–14: Member, *Ad hoc* Provost Initiative Hiring Committee, Integrative Biology, OSU.
13-14: Member, Personnel Committee, Integrative Biology, OSU.
12-13: Member, *Ad Hoc* Strategic Planning Subcommittee, Zoology, OSU.
12-13: Member, Director of Research Development, Research Office, OSU.
12-13: Member, Personnel Committee, Zoology, OSU.
11-12: Member, HMSC Director Search, Research Office, OSU.
11-12: Chair, Women in Science Award Committee, COS, OSU
11-12 Member, Provost's HMSC Action Team, Research Office, OSU.
11-12: WIC faculty training course (5 wks), proposal for WIC approval for Bi 450, OSU.
11-12: Chair, Promotion Committee, Jerod Sapp, Zoology, OSU.
11-12: Chair, Annual Peer Review of Faculty, Zoology, OSU.
10-11: Chair, Ecosystem Ecology Faculty Search, Zoology, OSU.
10: Affirmative Action Training, Office of Affirmative Action, OSU.
10-11: Member, HMSC External Review, Research Office, OSU.
09-10 Member, Ad hoc Life Sciences Reorganization Committee, Zoology, OSU.
09-10 Member, Graduate Studies Committee, Zoology, OSU.
08-09: Member, Life Sciences Curriculum Committee, COS, OSU.
07-09: Chair, Graduate Studies Committee, Zoology, OSU.
06-07: Member, Mission Subcommittee, Zoology, OSU.
06-07: Member, Life Sciences Reorganization Task Force, COS, OSU.
05-06: Member, Ecology and Evolutionary Biology Steering Committee, COS, OSU.
05-06: Member, Undergraduate Fellowship Committee, Zoology, OSU.
04–05: Member, Graduate Student Admissions, Zoology, OSU.
04-05: Member, Strategic Planning Committee, Zoology, OSU.
02–04: Member, Faculty Mentoring Committee, WSU Vancouver.
01–02: Chair, Ecology Faculty Search, WSU Vancouver.
00–01: Member, Conservation Biology Faculty Search, WSU Vancouver.
00–04: Member, Graduate Student Admissions, Environmental Science, WSU Vancouver.
99–04: Member, Student Conduct Board Committee, WSU Vancouver.
98–01: Member, Project Planning Committee, Engineering/Sciences Building, WSU Vancouver.
97–99: Member, Academic Integrity Committee, Faculty Senate, WSU Pullman.
96–97: Member, Evolutionary Genetics Faculty Search, WSU Vancouver.
96–97: Member, Environmental Science Faculty Search, WSU Vancouver.

INTERNATIONAL/NATIONAL PROFESSIONAL SERVICE

94–present: Journal/Proposal Reviewer; over 500 proposals and scientific papers.
11–14: Subject Matter Editor, *Marine Biology Research* journal, Taylor and Francis Group, UK.
11: Reviewer, Review of the National Coastal Condition Report IV, Chapter 6: West Coast Coastal Condition, EPA, Triangle Park, NC.
09: Member, Review Committee, Conservation Resource Management Program, NCEAS, UC Santa Barbara, Santa Barbara, CA
08-09: Chair, Science Advisory Board, National Center for Ecological Analysis and Synthesis, University of California Santa Barbara, CA.
06-09: Board Member, Science Advisory Board, National Center for Ecological Analysis and Synthesis, University of California Santa Barbara, CA.
01–09: Receiving Editor, *Ecology Letters*, Blackwell Scientific, Paris, France.
05: Guest Subject Matter Editor, *Ecology/Ecological Monographs*, Ecological Society of America.
04: Panelist, Washington Sea Grant Program Performance Review, University of Washington.
02–04: Advisor, Aquatic Nuisance Species Advisory Committee, Washington Sea Grant Program.
02: Panel Member, National Science Foundation, Ecology Program Advisory Panel.
01–04: Council Member, Natural Heritage Advisory Council, State of Washington.
99: Panel Member, National Science Foundation, Physiological Ecology Advisory Panel.
98–99: Board Member, Northwest Scientific Association.

MEDIA AND PUBLIC RELATIONS

21: Magazine article, How the 'Dune' science-fiction saga paralells the real science of Oregon's dunes, Geekwire by Alan Boyle https://www.geekwire.com/2021/dune-science-fiction-saga-parallels-real-science-oregons-dunes/)
21: Oregon Public Broadcasting radio piece on hybrid beachgrass discovery.
21: OSU press release, hybrid beachgrass discovery by Steve Lundeberg.
19: NOAA funding featured in a press release of Representative Peter De Fazio.
17: iMPACT (COS magazine) article on my research and being elected as AAAS Fellow 2017 http://impact.oregonstate.edu/2017/11/ecologist-elected-aaas-fellow-contributions-coastal-ecology/
15: Portland Monthly magazine, July 2015, "How the Oregon dunes inspired sci-fi classic *Dune,*" interviewed on beach grass invasions for the article.
10-11: Television feature on dune grass invasion, *Oregon Field Guide*, aired in spring 2011.
08: Perspectives article in *Science* magazine (volume 319: 290-291) featured our paper (Barbier et al. 2008 Science 319).
08: Article in *Discover* magazine, dune grass invasions on the Oregon Coast.
08 Article in Terra magazine, OSU Research magazine, dune grass invasions on the Oregon Coast.
07: Media Training, Office of Campus Advancement, OSU.
07: Article in *Register Guard*, dune grass invasions on the Oregon Coast.
05: Textbook *Elements of Ecology 6th Ed*, Smith and Smith, Benjamin Cummings Publisher, features personal profile of career and research on positive interactions.
05: Admissions Office classbook, photos and text featuring undergraduate marine biology educational opportunities at OSU.
05: President's Annual Report, photos and text featuring undergraduate marine biology educational opportunities at OSU.
05: Washington Sea Grant quarterly publication, *Sea Star*, article entitled "Repelling the green invader" features photos and interview on *Spartina* research and educational outreach.

04: Textbook *Biology 7th Ed*, Campbell and Reece, Benjamin Cummings Publisher, features photos and text about research on positive interactions in salt marshes.

04: *Northwest Science and Technology*, regional science magazine, article entitled "Island County students confront invasive grass, educate community" features photos and interview on *Spartina* educational outreach.

02: *Washington State Magazine*, WSU alumni magazine, article entitled "An English import invades Puget Sound" features photos and interview on *Spartina* research.

01: ABC News.com, Lee Dye's column Dye Hard Science, article entitled "The weed that won't die: beautiful but indestructible grass invades Northwest" features photos and interview on *Spartina* invasion.

97: *Universe Magazine*, WSU alumni magazine, article entitled "The effect of good neighbors," features photos and interview on salt marsh research.

97: *Oregonian* newspaper, Richard Hilll's column on news releases, short article featuring research on positive interactions.

96: Textbook *Ecology: Theories and Applications 2nd Ed*, Stiling, Prentice Hall, features figures and text about research on positive interactions in salt marshes.

96: President's Annual Report, photos featuring undergraduate environmental science educational opportunities at Washington State University.