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PROFESSIONAL APPOINTMENTS

2018-Present	Assistant Professor, University of Florida, Department of Environmental Engineering Sciences
2018-Present	Research Associate, Smithsonian Tropical Research Institute
2014-Present	Adjunct Professor, McGill University, Department of Biology
2012-2017	Staff Scientist, Smithsonian Tropical Research Institute
2007-2011	Postdoctoral Research Associate and Instructor, Brown University, Department of Ecology and Evolutionary Biology
2006-2007	Three Seas Postdoctoral Fellow; Northeastern University, Marine Science Center

EDUCATION

2006	Brown University Ph.D. in Ecology and Evolutionary Biology
1999	University of California Santa Cruz B.A. in Marine Biology (Honors in the Major)

PUBLICATIONS

(Underline indicates student author)

88. Saldaña, P.H., C. Angelini, M.D. Bertness, A.H. Altieri (2024) Dead foundation species drive ecosystem dynamics. **Trends in Ecology & Evolution** Early online access.

87. Howard, R.D., M.D. Schul, L.M. Rodriguez Bravo, A.H. Altieri, J.L. Meyer (2023) Shifts in the coral microbiome in response to in situ experimental deoxygenation. **Applied and Environmental Microbiology** 89: e00577-23.

86. Xu, C., B.R. Silliman, J. Chen, X. Li, M.S. Thomsen, Q. Zhang, J. Lee, J.S. Lefcheck, P. Daleo, B.B. Hughes, H.P. Jones, R. Wang, S. Wang, C. Smith, X. Xi, A.H. Altieri, J. van de Koppel, T.M. Palmer, L. Liu, J. Wu, B. Li, Q. He (2023) Herbivory limits success of vegetation restoration globally. **Science** 382: 589-594.

85. Mallon, J., A. Demko, J. Sneed, L. Newman, C. Dugan, A.H. Altieri, V.J. Paul, M.D. Johnson (2023) The influence of deoxygenation on Caribbean coral larval settlement and early survival. **Frontiers in Marine Science** 10: 1254965.

84. Walker, J.E., C. Angelini, A.H. Altieri, C.W. Martin, T.Z. Osborne (2023). Influence of climate-mediated shifts in wetland vegetation on prey fish habitat use and schooling dynamics. **Marine Ecology Progress Series** 716: 31-45.

83. Li, X., H. Wang, D.J. McCauley, A.H. Altieri, B.R. Silliman, J.S. Lefcheck, J. Wu, B. Li, Q. He (2023) A wide megafauna gap undermines China's expanding coastal ecosystem conservation. **Science Advances** 9: eadg3800.
82. Morrison, E.S., E. Philips, S. Badylak, A.R. Chappel, A.H. Altieri, T.Z. Osborne, D. Tomasko, M.W. Beck, E. Sherwood (2023) The response of Tampa Bay to a legacy mining nutrient release in the year following the event. **Frontiers in Ecology and Evolution** 11: 1144778.
81. Fourqurean, J.W., J.E. Campbell, O.K. Rhoades, C.J. Munson, J.R. Krause, A.H. Altieri, J.G. Douglass, K.L. Heck Jr., V.J. Paul, A.R. Armitage, S.C. Barry, E. Bethel, L. Christ, M.J. A. Christianen, G. Dodillet, K. Dutton, T.K. Frazer, Bethany M. Gaffey, R. Glazner, J.A. Goeke, R. Grana-Valdes, O.A.A. Kramer, S.T. Linhardt, C.W. Martin, I.G. Martínez López, A.M. McDonald, V.A. Main, S.A. Manuel, C. Marco-Méndez, D.A. O'Brien, O. O'Shea, C.J. Patrick, C. Peabody, L.K. Reynolds, A. Rodriguez, L.M. Rodriguez Bravo, A. Sang, Y. Sawall, F.O.H. Smulders, J.E. Thompson, B. van Tussenbroek, W.L. Wied, S.S. Wilson (2023) Seagrass abundance predict surficial soil organic carbon stocks across the range of *Thalassia testudinum* in the western North Atlantic. **Estuaries and Coasts** 46: 1280-1301.
80. Cannon, A.L., M.G. Hynes, M. Brandt, C. Wold, A. O'Dea, A.H. Altieri, J.E. Smith (2022) Simulated green turtle grazing reduces seagrass productivity and alters benthic community structure while triggering further disturbance by feeding stingrays. **Caribbean Journal of Science** 52: 373-388.
79. Doucette, V.E., L.M. Rodriguez Bravo, A.H. Altieri, M.D. Johnson (2022) Negative effects of a zoanthid competitor limit coral calcification more than ocean acidification. **Royal Society Open Science** 9: 220760.
78. Adelson, A.E., A.H. Altieri, X. Boza, R. Collin, K.A. Davis, A. Gaul, S.N. Giddings, V. Reed, G. Pawlak (2022) Seasonal hypoxia and temperature inversions in a tropical bay. **Limnology and Oceanography** 67: 2174-2189.
77. Clever, F., J.M. Sourisse, R.F. Preziosi, J.A. Eisen, E.C. Rodriguez Guerra, J.J. Scott, L.G.E. Wilkins, A.H. Altieri, W.O. McMillan, M. Leray (2022) The gut microbiome variability of a butterflyfish increases on severely degraded Caribbean reefs. **Communications Biology** 5: 770.
76. Stewart, H.A., J.L. Wright, M. Carrigan, A.H. Altieri, D.I. Kline, R.J. Araújo (2022) Novel co-existing mangrove-coral habitats: Extensive coral communities located deep within mangrove canopies of Panama, a global classification system, and predicted distributions. **PLoS One** 17: e0269181.
75. Ashton, Gail V., A.L. Freestone, J.E. Duffy, M.E. Torchin, B.J. Sewall, B. Tracy, M. Albano, A.H. Altieri. . G.M. Ruiz +56 others (2022) Predator control of marine communities increases with temperature across 115 degrees of latitude. **Science** 376: 1215-1219.
74. Walker, J.E., T. Ankersen, S. Barchiesi, C.K. Meyer, A.H. Altieri, T.Z. Osborne, C. Angelini (2022) Governance of the mangrove commons: Advancing the cross scale, nested framework for the global conservation and wise use of mangroves. **Journal of Environmental Management** 312: 114823.

73. Beck M.W., A. Altieri, C. Angelini, M.C. Burke, J. Chen, D.W. Chin, J. Gardiner, C. Hu, K.A. Hubbard, Y. Liu, C. Lopez, M. Medina, E. Morrison, E.J. Phlips, G.E. Raulerson, S. Scolaro, E.T. Sherwood, D. Tomasko, R.H. Weisberg, J. Whalen (2022) Initial estuarine response to inorganic nutrient inputs from a legacy mining facility adjacent to Tampa Bay, Florida. **Marine Pollution Bulletin** 178: 113598.
72. H.A. Stewart, D.S. Janiak, J.L. Wright, D.A.G.A. Hunt, A. Carmona Cortes, K.T. Powell, L.J. Chapman, A.H. Altieri (2022) Epibiont community composition on red mangroves *Rhizophora mangle* are contingent on root characteristics. **Marine Ecology Progress Series** 686: 15-35.
71. Crotty, S.M., T.S. Bianchi, A. Altieri, C. Angelini (2022) Reply to Wilson et al.: Feedbacks between geomorphology and fauna engineers are key to predicting coastal responses to rising seas. **Proceedings of the National Academy of Sciences USA** 119: e2118042119.
70. Thomsen, M.S., A.H. Altieri, C. Angelini, M.J. Bishop, F. Bulleri, R. Farhan, V.M.M. Fruhling, P.E. Gribben, S.B. Harrison, Q. He, M. Klinghardt, J. Langeneck, B.S. Lanham, L. Mondardini, Y. Mulders, S. Oleksyn, A.P. Ramus, D.R. Schiel, T. Schneider, A. Siciliano, B.R. Silliman, D.A. Smale, P.M. South, T. Wernberg, S. Zhang, and G. Zotz (2022). Heterogeneity within and among co-occurring foundation species increases biodiversity. **Nature Communications** 13: 581.
69. Boyd, A.D., N.S. Walker, S.R. Valdez, Y.S. Zhang, A.H. Altieri, V. Gulis, C. Crain, B. Silliman (2022) Invertebrate grazing on live turtlegrass (*Thalassia testudinum*): A common interaction that may facilitate fungal growth. **Frontiers in Marine Science** 8: 789380.
68. Johnson, M.D., S.D. Swaminathan, E.N. Nixon, V.J. Paul, A.H. Altieri (2021) Differential susceptibility of reef-building corals to deoxygenation reveals remarkable hypoxia tolerance. **Scientific Reports** 11: 1-12.
67. Johnson, M.D., L.M.R. Bravo, N. Lucey, A.H. Altieri (2021) Environmental legacy effects and acclimatization of a crustose coralline alga to ocean acidification. **Climate Change Ecology** 2: 100016.
66. Johnson, M.D., J.J. Scott, M. Leray, N. Lucey, L.M.R. Bravo, W.L. Wied, A.H. Altieri (2021) Rapid ecosystem-scale consequences of acute deoxygenation on a Caribbean coral reef. **Nature Communications** 12: 1-12.
65. Sellers, A.J., B. Leung, A.H. Altieri, J. Glanz, B.L. Turner, M.E. Torchin (2021) Seasonal upwelling reduces herbivore control of tropical rocky intertidal algal communities. **Ecology** 102: e03335.
64. Gaubert-Boussarie, J., A.H. Altieri, J.E. Duffy, J.E. Campbell (2021) Seagrass structural and elemental indicators reveal high nutrient availability within a tropical lagoon in Panama. **PeerJ** 9: e11308.
63. Knight, N.S., F. Guichard, A.H. Altieri (2021) A global meta-analysis of temperature effects on marine fishes' digestion across trophic groups. **Global Ecology and Biogeography** 30: 795-810.

62. Stewart, H.A., D.I. Kline, L.J. Chapman, A.H. Altieri (2021) Caribbean mangrove forests act as coral refugia by reducing light stress and increasing coral richness. **Ecosphere** 12: e03413.

61. Altieri, A.H., M.D. Johnson, S.D. Swaminathan, H.R. Nelson, K.B. Gedan (2021) Resilience of tropical ecosystems to ocean deoxygenation. **Trends in Ecology and Evolution** 36: 227-238.

60. Whalen, M.A., R.D.B. Whippo, J.J. Stachowicz, P.H. York, E. Aiello, T. Alcoverro, A.H. Altieri, . . J.E. Duffy +59 others (2020) Climate drives geography of marine consumption by changing predator communities. **Proceedings of the National Academy of Sciences USA** 117: 28160-28166.

59. Crotty, S.M., C. Ortals, T.M. Pettengill, L. Shi, M. Olabarrieta, M.A. Joyce, A.H. Altieri, E. Morrison, T.S. Bianchi, C. Craft, M.D. Bertness, C. Angelini (2020) Sea-level rise and the emergence of a keystone grazer alters the geomorphic evolution and ecology of southeast US salt marshes. **Proceedings of the National Academy of Sciences USA** 117: 17891-17902.

58. Nguyen, B.N., E.W. Shen, J. Seemann, A.M.S Correa, J.L. O'Donnell, A.H. Altieri, N. Knowlton, K.A. Crandall, S.P. Egan, W.O. McMillan, M. Leray (2020) Environmental DNA survey captures patterns of fish and invertebrate diversity across a tropical seascape. **Scientific Reports** 10: 1-14.

57. Staaterman, E., A.J. Gallagher, P.E. Holder, C.H. Reid, A.H. Altieri, M.B. Ogburn, J.L. Rummer, S.J. Cooke (2020) Exposure to boat noise in the field yields minimal stress response in wild reef fish. **Aquatic Biology** 29: 93-103.

56. O'Dea, A., M. Lepore, A.H. Altieri, M. Chan, J.M. Morales-Saldaña, N.-H. Muñoz, J.M. Pandolfi, M.A. Toscano, J. Zhao, and E.M. Dillon (2020) Defining variation in pre-human ecosystems can guide conservation: An example from a Caribbean coral reef. **Scientific Reports** 10: 2922.

55. Walker, J.E., C. Angelini, I. Safak, A.H. Altieri, and T.Z. Osborne (2019) Effects of changing vegetation composition on community structure, ecosystem functioning, and predator-prey interactions at the saltmarsh-mangrove ecotone. **Diversity** 11: 208.

54. Gribben, P.E., C. Angelini, A.H. Altieri, M.J. Bishop, M.S. Thomsen, and F. Bulleri (2019) Facilitation cascades in marine ecosystems: A synthesis and future directions. **Oceanography and Marine Biology - An Annual Review**: 57:127-168.

53. MacKenzie, K.M., D.R. Robertson, J.N. Adams, A.H. Altieri, B.L. Turner (2019) Structure and nutrient transfer in a tropical pelagic upwelling food web: From isoscapes to the whole ecosystem. **Progress in Oceanography** 178: 102145.

52. Crotty, S.M., A.H. Altieri, J.F. Bruno, H. Fischman, and M.D. Bertness (2019) The foundation for building the conservation capacity of community ecology. **Frontiers in Marine Science** 6: 238.

51. Nelson, H.R. and A.H. Altieri (2019) Oxygen: The universal currency on coral reefs. **Coral Reefs**: 38: 177-198.

*Awarded paper of the year by journal

50. Cheng, B.S., A.H. Altieri, M.E. Torchin, and G.M. Ruiz (2019) Can marine reserves restore lost ecosystem functioning? A global synthesis. **Ecology** 100: e02617.

*Featured as a "Research Highlight" in Nature Sustainability

49. Johnson, M. D., L. M. Rodriguez Bravo, S. E. O'Connor, N. F. Varley, and A. H. Altieri (2019) pH variability exacerbates effects of ocean acidification on a Caribbean crustose coralline alga. **Frontiers in Marine Science** 6: 150.

48. Cheng, B.S., G.M. Ruiz, A.H. Altieri, M.E. Torchin (2019) The biogeography of invasion in tropical and temperate seagrass beds: Testing interactive effects of predation and propagule pressure. **Diversity and Distributions** 25: 285-297.

47. Salas, A.K., A.H. Altieri, P.S. Wilson, T.H. Keitt (2018) Predicting the reef acoustic cuescape from the perspective of larval fishes across a habitat quality gradient. **Marine Ecology Progress Series** 605: 173-193.

46. Dunn, R.P., A.H. Altieri, K. Miller, M.E. Yeager, K.A. Hovel (2018) Contrasting behavioral responses to predatory risk cues reflect different foraging strategies in two Caribbean sea urchins. **Marine Ecology Progress Series** 604: 187-198.

45. Thomsen, M.S., A.H. Altieri, C. Angelini, M.J. Bishop, P.E. Gribben, G. Lear, Q. He, D.R. Schiel, B.R. Silliman, P.M. South, D.M. Watson, T. Wernberg, G. Zotz (2018) Secondary foundation species enhance biodiversity. **Nature Ecology and Evolution** 2: 634-639.

44. Davidson, T.M., A.H. Altieri, G.M. Ruiz, M.E. Torchin (2018) Bioerosion in a changing world: a conceptual framework. **Ecology Letters** 21: 422-438.

43. Seemann, J., A. Yingst, R.D. Stuart-Smith, G.J. Edgar, A.H. Altieri (2018) The importance of sponges and mangroves in supporting fish communities on degraded coral reefs in Caribbean Panama. **PeerJ** 6: e4455.

42. Johnson M.D., L.M. Rodriguez, A.H. Altieri (2018) Shallow-water hypoxia and mass mortality on a Caribbean coral reef. **Bulletin of Marine Science** 94:143-144.

41. Campbell, J.C., A.H. Altieri, L.N. Johnston, C.D. Kuempel, R. Paperno, V.J. Paul, J.E. Duffy (2018) Herbivore community determines the magnitude and mechanism of nutrient effects on subtropical and tropical seagrasses. **Journal of Ecology** 106: 401-412.

40. Gedan, K.B., A.H. Altieri, I. Feller, R. Burrell, D. Breitburg (2017) Community composition in mangrove ponds with pulsed hypoxic and acidified conditions. **Ecosphere** 8: e02053.

39. Altieri, A.H., S.B. Harrison, J. Seemann, R. Collin, R.J. Diaz, N. Knowlton (2017) Tropical dead zones and mass mortalities on coral reefs. **Proceedings of the National Academy of Sciences USA** 114: 3660-3665.

*Featured as "Editors' Choice" in Science.

38. Staaterman, E., M.B. Ogburn, A.H. Altieri, S.J. Brandl, R. Whippo, J. Seemann, M. Goodison, J.E. Duffy (2017) Bioacoustic measurements complement visual biodiversity

surveys: preliminary evidence from four shallow marine habitats. **Marine Ecology Progress Series** 575: 207-215.

37. O'dea A., E.M. Dillon, A.H. Altieri, M.L. Lepore (2017) Look to the past for an optimistic future. **Conservation Biology** 31:1221-1222.

36. Dunn, R.P., A.H. Altieri, K. Miller, M. Yeager, K.A. Hovel (2017) Coral identity and structural complexity drive habitat associations and demographic processes for an increasingly important Caribbean herbivore. **Marine Ecology Progress Series** 577: 33-47.

35. Altieri, A.H. and A.D. Irving (2017) Species coexistence and the superior ability of an invasive species to exploit a facilitation cascade habitat. **PeerJ** 5: e2858.

34. Kuempel, C.D. and A.H. Altieri (2017) The emergent role of small-bodied herbivores in pre-empting phase shifts on degraded Caribbean reefs. **Scientific Reports** 7: 39670.

33. Nelson, H.R., C.D. Kuempel, and A.H. Altieri (2016) The resilience of reef invertebrate biodiversity to coral mortality. **Ecosphere** 7: e1399.

32. Van der Zee, E.M., C. Angelini, L.L. Govers, M.J.A. Christianen, A.H. Altieri, K.J. van der Reijden, B.R. Silliman, J. van de Koppel, M. van der Geest, J.A. van Gils, H.W. van der Veer, T. Piersma, P.C. de Ruiter, H. Olf, T. van der Heide (2016) How habitat forming organisms structure the food webs of two coastal ecosystems. **Proceedings of the Royal Society B** 283: 20152326.

31. He, Q., A.H. Altieri, B. Cui (2015) Herbivory drives zonation of stress-tolerant marsh plants. **Ecology** 96: 1318-1328.

30. Altieri, A.H. and K.B. Gedan (2015) Climate change and dead zones. **Global Change Biology** 21: 1395-1406.

29. Van de Koppel, J., T. van der Heide, A.H. Altieri, B.K. Eriksson, T.J. Bouma, H. Olf, B.R. Silliman (2015) Long-distance interactions regulate the structure and resilience of coastal ecosystems. **Annual Review of Marine Science** 7: 139-158.

28. Altieri, A.H. and J.D. Witman (2014) Modular mobile foundation species as reservoirs of biodiversity. **Ecosphere** 5: 124.

27. He, Q., M.D. Bertness, J.F. Bruno, B. Li, G. Chen, T.C. Coverdale, A.H. Altieri, J. Bai, T. Sun, S.C. Pennings, J. Liu, P.R. Ehrlich, B. Cui (2014) Economic development and coastal ecosystem change in China. **Scientific Reports** 4: 5995.

26. Coverdale, T.C., E.E. Axelman, C.P. Brisson, E.W. Young, A.H. Altieri, M.D. Bertness (2013) New England salt marsh recovery: Opportunistic colonization of an invasive species and its non-consumptive effect. **PLoS One** 8: e73823.

25. Yarrington, C.S., A.C. Tyler, A.H. Altieri (2013) Do snails facilitate bloom-forming macroalgae in a eutrophic estuary? **Journal of Experimental Marine Biology and Ecology** 446: 253-261.

24. Altieri, A.H., M.D. Bertness, T.C. Coverdale, E.E. Axelman, N.C. Herrmann, P.L. Szathmary (2013) Feedbacks underlie the resilience of salt marshes and rapid reversal of consumer driven die-off. **Ecology** 94: 1647-1657.

23. Coverdale, T.C., M.D. Bertness, A.H. Altieri (2013) Regional ontogeny of New England salt marsh die-off. **Conservation Biology** 27: 1041-1048.
22. Coverdale, T.C., N.C. Herrmann, A.H. Altieri, M.D. Bertness (2013) Latent impacts: the role of historical human activity in coastal habitat loss. **Frontiers in Ecology and the Environment** 11: 69-74.
21. He, Q., M.D. Bertness, A.H. Altieri (2013) Global shifts toward positive species interactions with increasing environmental stress. **Ecology Letters** 16: 695-706.
20. Coverdale, T.C., A.H. Altieri, M.D. Bertness (2012) Belowground herbivory increases vulnerability of New England salt marshes to die-off. **Ecology** 93: 2085-2094.
19. Altieri, A.H., M.D. Bertness, T.C. Coverdale, N.C. Herrmann, C. Angelini (2012) A trophic cascade triggers collapse of a salt marsh ecosystem with intensive recreational fishing. **Ecology** 93: 1402-1410.
18. Gedan, K.B., A.H. Altieri, M.D. Bertness (2011) Uncertain future of New England marshes. **Marine Ecology Progress Series** 434: 229-237.
17. Silliman, B.R., M.D. Bertness, A.H. Altieri, J.N. Griffin, M.C. Bazterrica, F.J. Hidalgo, C.M. Crain, M.V. Reyna (2011) Whole-community facilitation regulates biodiversity on Patagonia rocky shores. **PLoS One** 6: e24503.
16. Angelini, C., A.H. Altieri, B.R. Silliman, and M.D. Bertness (2011) Interactions among foundation species and their consequences for community organization, biodiversity, and conservation. **BioScience** 61: 782-789.
15. Thomsen, M.S., T. Wernberg, A. H. Altieri, F. Tuya, D. Gulbransen, K. McGlathery, M. Holmer, B.R. Silliman (2010) Habitat cascades: the conceptual context and global relevance of indirect positive effects. **Integrative and Comparative Biology** 50: 158-175.
14. Altieri, A.H., B.K. van Wesenbeeck, M.D. Bertness, B.R. Silliman (2010) Facilitation cascade explains positive relationship between native biodiversity and invasion success. **Ecology** 91: 1269-1275. *Selected for review by the Faculty of 1000 Biology
13. Bertness, M.D., C. Holdredge, A.H. Altieri (2009) Substrate mediates consumer control of salt marsh cordgrass on Cape Cod, New England. **Ecology** 90: 2108-2117.
12. Altieri, A.H, G.C. Trussell, P.J. Ewanchuk, G. Bernatchez, M.E.S. Bracken (2009) Consumers control diversity and functioning in a natural marine ecosystem. **PLoS One** 4: e5291.
11. Holdredge, C., M.D. Bertness, A.H. Altieri (2009) Crab herbivory driven die-off of New England salt marshes. **Conservation Biology** 23: 617-692.
10. Altieri, A.H. (2008) Dead zones enhance key fisheries species by providing predation refuge. **Ecology** 89: 2808-2818.
- *Selected for Ecological Society of America's monthly podcast (Field Talk, 10/08).

9. Van Wesenbeeck, B.K., C.M. Crain, A.H. Altieri, M.D. Bertness (2007) Distinct habitat types arise along a continuous hydrodynamic stress gradient due to the interplay of competition and facilitation. **Marine Ecology Progress Series** 349: 63-71.
8. Altieri, A.H., B.R. Silliman, M.D. Bertness (2007) Hierarchical organization via a facilitation cascade in intertidal cordgrass bed communities. **American Naturalist** 169: 195-206.
7. Zabin, C.J. and Altieri, A. (2007) A Hawaiian limpet facilitates recruitment of a competitively dominant invasive barnacle. **Marine Ecology Progress Series** 137: 175-185.
6. Altieri, A.H. (2006) Inducible variation in hypoxia tolerance across the intertidal-subtidal distribution of the blue mussel *Mytilus edulis*. **Marine Ecology Progress Series** 325: 295-300.
5. Altieri, A.H. and J.D. Witman (2006) Local extinction of a foundation species in a hypoxic estuary: integrating individuals to ecosystem. **Ecology** 87: 717-730.
4. Van de Koppel, J., A. H. Altieri, B.R. Silliman, J. F. Bruno, M. D. Bertness (2006) Scale-dependent interactions and community structure on cobble beaches. **Ecology Letters** 9: 45-50.
3. Lindsey, E.L., A.H. Altieri, J.D. Witman (2006) Influence of biogenic habitat on the recruitment and distribution of a subtidal xanthid crab. **Marine Ecology Progress Series** 306: 223-231.
2. Silliman, B.R., C.A. Layman, A.H. Altieri (2003) Symbiosis between an alpheid shrimp and a xanthoid crab in salt marshes of mid-Atlantic states, U.S.A. **Journal of Crustacean Biology** 23: 876-879.
1. Altieri, A.H. (2003) Settlement cues in the locally dispersing temperate cup coral *Balanophyllia elegans*. **Biological Bulletin** 204: 241-245.

BOOK CHAPTERS

6. Altieri, A.H., H.R. Nelson, K.B. Gedan (2019) The significance of ocean deoxygenation for tropical ecosystems – corals, seagrasses, and mangroves. Pages 401-429 in *Ocean Deoxygenation: Everyone's problem – Causes, impacts, consequences and solutions*. D. Loffoley & J.M. Baxter, editors. IUCN, Gland, Switzerland.
5. Altieri, A.H. (2019) Dead zones: Low oxygen in coastal waters. Pages 22-34 in *Encyclopedia of Ecology*. B. Fath, editor. Elsevier Academic Press, Oxford, UK.
4. Altieri, A.H. and R.J. Diaz (2019) Dead zones: Oxygen depletion in coastal ecosystems. Pages 453-473 in *World Seas: An Environmental Evaluation*. C. Sheppard, editor. Elsevier Academic Press, Oxford, UK.
3. Altieri, A.H. (2015) *Ecosystem Engineers*. *Oxford Bibliographies*. Oxford University Press, Oxford, UK.
2. Altieri, A.H. and J. Van De Koppel (2013) Foundation species in marine ecosystems. Pages 37-56 in *Marine Community Ecology and Conservation*. M. D. Bertness, J. F. Bruno,

B. R. Silliman, and J. J. Stachowicz, editors. Sinauer Associates, Sunderland, MA, USA.

1. McCoy, M.W., A.H. Altieri, C. Holdredge, M.S. Thomsen, and B.R. Silliman (2012) Facilitation. Pages 276-279 in *Encyclopedia of Theoretical Ecology*. A. Hastings and L.J. Gross editors. University of California Press, Oakland, CA, USA.

GRANTS

(in US dollars)

- 2023-2028 National Science Foundation, Biological Oceanography, “CAREER: Life after death in coral reefs: Testing the pivotal role of dead corals in ecosystem resilience”, \$823,213. **A.H. Altieri**.
- 2023-2026 National Fish and Wildlife Foundation, “Phase II: Partnering with Multiple Stakeholders to Innovate Salt Marsh Restoration Techniques that Reuse Dredged Sediment, Maintain Navigation, and Protect Coastal Community Infrastructure within the Lower St Johns River Watershed (FL)”, \$1,048,020. C. Angelini and **A.H. Altieri**.
- 2022-2025 The Nature Conservancy/US Department of Defense, “Coastal resilience at Tyndall Air Force Base: Nature-based coastal resilience solutions for installation resilience, mission assurance and environmental conservation”, \$1,024,783 (\$451,986 to Altieri). C. Angelini, A. Sheremet, **A.H. Altieri**.
- 2022-2024 Schmidt Marine Technology Partners through GROW Oyster Reefs, “The marriage of oysters and seagrass: restoring ecosystems, protecting shorelines, and sequestering carbon”, \$19,979. **A.H. Altieri**.
- 2021-2025 National Science Foundation, Biological Oceanography, “Biodiversity and resilience of corals and their microbiomes in response to ocean deoxygenation”, \$1,204,131 (\$873,302 to University of Florida). **A.H. Altieri**, J.L. Meyer, R. Collin.
- 2021-2024 National Fish and Wildlife Foundation, “Quantifying thresholds and testing interventions to optimize coral restoration in the Florida Keys”, \$149,204. **A.H. Altieri**.
- 2021-2022 US Army Corps of Engineers, US Army Engineer Research and Development Center, “Enhancing Engineering With Nature Design and Implementation in Coastal Systems through Multi-Sector and Interdisciplinary Collaboration”, \$999,996 (\$127,165 to Altieri). C. Angelini, P. Adams, **A.H. Altieri**, A. Sheremet, X. Yu.
- 2021-2023 Ocean Conservancy, “The ecological response to the Piney Point gypsum stack releases”, \$24,000 (\$11,496 to Altieri). E. Morrison, **A.H. Altieri**, E. Philips.
- 2018-2024 National Oceanic and Atmospheric Administration, “Assessing the threat of hypoxia to tropical ecosystems: A multi-stressor framework to support coral restoration efforts”, \$768,798 (\$456,640 to University of Florida). **A.H. Altieri**, M.D., Johnson, V.J. Paul.

- 2018-2022 National Science Foundation, Biological Oceanography, “The tropicalization of Western Atlantic seagrass beds”, \$1,154,919 (\$699,095 to Smithsonian Institution). J.E. Campbell, V.J. Paul, **A.H. Altieri**, K.L. Heck, J.G. Douglass.
- 2016-2021 1923 Fund Foundation, “Marine conservation fellowship program: A STRI-UF collaboration to bridge the Americas”, \$478,469 (\$239,820 to STRI). **A.H. Altieri**, T.M. Davidson, C. Angelini, T.Z. Osborne.
- 2016-2019 Ajana Foundation and Hoch Charitable Trust, “Building capacity for two-ocean monitoring at STRI”, \$250,000. **A.H. Altieri** and R. Collin.
- 2016-2017 Smithsonian Institution, Scholarly Studies Award, “The scaling of diversity in tropical marine ecosystems”, \$36,400. **A.H. Altieri**, M. Leray, and N. Knowlton.
- 2014-2015 Smithsonian Institution, Grand Challenges Grant from Consortium for Understanding and Sustaining a Biodiverse Planet, “An experimental network for understanding seagrass (*Thalassia testudinum*) biodiversity and ecology— Advancing the Tennenbaum Marine Observatories Network”, \$100,000. V.J. Paul, **A.H. Altieri**, J.E. Campbell, and J. E. Duffy.
- 2010-2013 National Science Foundation, Biological Oceanography, “Is overfishing triggering the die-off of Northeastern US salt marshes?”, \$491,000. M.D. Bertness and **A.H. Altieri**.
- 2005 American Museum of Natural History, Lerner-Gray Fund for Marine Research, “Quantifying the full impact of oxygen depletion on the dynamics and community composition of a temperate estuary”, \$1,800. **A.H. Altieri**.
- 2005 RI Sea Grant, “Supplement to Quantifying the impact of hypoxia on benthic communities of Narragansett Bay”, \$5,500. **A.H. Altieri** and J.D. Witman.
- 2005 Quebec-Labrador Foundation/Atlantic Center for the Environment, Sounds Conservancy, Assessing the full impact of oxygen depletion on the Narragansett Bay estuarine community”, \$2,200. **A.H. Altieri**.
- 2003 Watson Institute for International Studies, “Assessing the ecosystem service value of upwelling in the Galapagos”, \$5,000. **A.H. Altieri**
- 2003-2005 Rhode Island Sea Grant, “Quantifying the impact of hypoxia on the benthic community of Narragansett Bay”, \$66,500. **A.H. Altieri** and J.D. Witman.
- 2002 U.S Environmental Protection Agency, New England Interstate Water Pollution Control Commission, “The effects of water quality degradation on the foundation species blue mussel and the associated benthic community of Narragansett Bay”, \$18,200. **A.H. Altieri** and Jon D. Witman.
- 2001-2004 National Oceanic and Atmospheric Administration, “Structuring of the estuarine community by the mussel *Mytilus edulis*”, \$51,500. **A.H. Altieri** and Jon D. Witman.

TEACHING EXPERIENCE

- 2020-present Co-instructor, Tropical Wetland Conservation, University of Florida
- 2019-present Instructor, *Ecological Engineering*, University of Florida
- 2018-present Instructor, *Ecosystem Engineers*, University of Florida
- 2011 Instructor, *Tropical Biology* Grad Seminar, Brown University (in Panama)
- 2008-2010 Instructor, *Marine Ecology*, Brown University.
- 2010 Co-instructor, *Coastal Ecology and Conservation*, Brown University
- 2007-2008 Instructor, *Invertebrate Zoology*, Brown University.
- 2007 Instructor, *Marine Protected Areas Workshop*, Northeastern University (in Moorea, French Polynesia).
- 2006 Instructor, *Marine Invertebrate Zoology*, Northeastern University.
- 2005-2006 Co-instructor, *Tropical Marine Biology*, Univ of Virginia (in the Bahamas).
- 2005 Co-instructor, *Tropical Biology*, Brown University (in Belize).
- 2004 Teaching Certificate in Higher Education, Sheridan Center, Brown University.
- 2000-2005 Teaching Assistant, *Conservation Biology*, *Principles of Ecology*, *Invertebrate Zoology*, and *Animal Behavior*, Brown University.
- 1996 Intern, Public Education & Outreach Program, Long Marine Lab, UCSC.

STUDENT ADVISING AND MENTORSHIP

Postdocs (Listed with current positions)

- Bea Marin Diaz (2022-present), co-advised with Christine Angelini
- Diana Chin (2020-2023), Assoc Research Scientist, Northeastern University; Metro Boston Regional Coordinator, MassBays National Estuary Partnership
- Maggie Johnson (2016-2019), Asst Professor, King Abdullah Univ of Science and Tech
- Matthieu Leray (2016-2018), Staff Scientist, Smithsonian Tropical Research Institute
- Kirsteen MacKenzie (2016-2017), Researcher, Institute of Marine Research, Norway
- Laura Núñez Pons (2016-2017), Faculty, Stazione Zoologica Anton Dohrn, Italy
- Janina Seemann (2015-2017), Manager, Ministry of Environment, Germany
- Erica Staaterman (2015-2017), Scientist, Bureau of Ocean Energy Management
- Brian Cheng (2014-2017), Assistant Professor, UMass Amherst
- Lisa Schile (2014-2016), Senior Associate, Silvestrum Climate Associates

Graduate students (Listed with current positions)

- Britney Hay, PhD student (2022-present)
- Dakota Lewis, PhD student (2021-present)
- Joe Marchionno, PhD student (2021-present), co-advised with Christine Angelini
- Adrian Sakr, PhD student (2021-present)
- Allison Cauvin, PhD student (2020-present), co-advised with Julie Meyer

Sara Swaminathan, PhD student (2019-present)

Patrick Saldaña, PhD student (2018-present)

Nicole Knight, PhD (2023), co-advised with Fred Guichard, Postdoctoral Fellow, University of British Columbia

Kathryn Grabowski, MSc (2023), co-advised with Andy Gonzalez

Heather Stewart, PhD (2021), co-advised with Lauren Chapman, Staff Researcher, Florida Fish and Wildlife Conservation Commission

Caitlin Kuempel, MSc (2014), Lecturer, Griffith University

Undergraduate students, interns, and grad fellows (Listed with current positions)

Representative list from 40+ students

Farid Ahmed, Civil Analyst, Kimley-Horn

Abigail Cannon, Postdoc, Scripps Institution of Oceanography

David Deacon, PhD student, University of Florida

Robert Dunn, Research Coordinator, North Inlet – Winyah Bay NERR

Julie Fernandez, Undergraduate student, University of Florida

Viktoria Frühling, Panamanian Embassy to Sweden

Alyssa Guariniello, Water Resources E.I., Jones Edmunds

Seamus Harrison, Coastal Ecologist, Research Planning, Inc

Irene Kopelman, Independent artist

Leighton Levering, Undergraduate student, University of Florida

Lauren Linsmayer, Professional Staff Member, US House of Representatives

Bryan Nguyen, PhD student, George Washington University

Andria Salas, Postdoc, Woods Hole Oceanographic Institution

Michael Hynes, PhD student, University of Amsterdam

Lucia Rodriguez, Technician, King Abdullah University of Science and Technology

Elaine Shen, PhD student, Rice University

Nicholas Varley, Technician, Coral Restoration Foundation

William Wied, PhD student, Florida International University

FELLOWSHIPS AND AWARDS

2023 National Science Foundation CAREER Award

2020 Best Paper of the Year for journal *Coral Reefs*. For “Oxygen: the universal currency on coral reefs”.

2006 Presidential Award for Excellence in Teaching (Honorable Mention), Brown University.

2005 John G. Peterson Fellowship, Brown University. Merit-based award to one graduate student in the Division of Biology and Medicine annually.

2004 Faculty Scholar Award, Brown University. Merit-based award to three students in the Graduate School annually.

2003 Best Student Paper Award, 84th Annual Western Society of Naturalists Meeting.

2003 Luce Graduate Environmental Fellowship, Watson Institute for International Studies

2003 Best Student Paper Award, 32nd Annual Marine Benthic Ecology Meeting.

2001 Graduate Research Fellowship, National Estuarine Research Reserve System,

National Oceanic and Atmospheric Administration.

1999 Dean's Award for Undergraduate Research, Division of Natural Sciences,
University of California Santa Cruz (UCSC).

1999 Honors in the Major, Department of Biology, UCSC.

1999 Senior Thesis Honors, Department of Biology, UCSC.

1998 President's Undergraduate Fellowship, University of California.

1998 Student Research Award, Long Marine Laboratory, UCSC.

INVITED PRESENTATIONS

2023 University of Pisa, Department of Biology

2023 Smithsonian Tropical Research Institute

2023 King Abdullah University of Science and Technology, Red Sea Research Center

2022 Liege University, 53rd International Colloquium on Ocean Dynamics

2019 Stony Brook University, School of Marine and Atmospheric Sciences

2019 University of Houston, Department of Biology and Biochemistry

2019 Brown University, Department of Ecology and Evolutionary Biology

2018 UC Santa Barbara, Department of Ecology, Evolution, and Marine Biology

2018 Smithsonian Marine Station Ft. Pierce

2017 NOAA National Ocean Service (NOS) Science Seminar

2016 University of Florida, Engineering School for Sustainable Infrastructure & Environment

2015 University of Canterbury, Department of Biological Sciences

2013 McGill University, Department of Biology

2012 PEW Marine Fellows Meeting, Models for coupled human and natural ecosystems

2012 Asociacion Panameña para el Avance de la Ciencia, Simposio Especies Invasoras

2011 Coastal & Estuarine Research Federation, Recreational fishing & ecosystem collapse

2011 University of Rhode Island, Department of Natural Resources Science

2011 Northeastern University, Marine Science Center

2011 Smithsonian Institution, Smithsonian Tropical Research Institute

2011 George Washington University, Department of Biological Sciences

2011 University of Maryland, Chesapeake Biological Laboratory

2010 American Physiological Society, Global Change and Global Science

2010 University of Groningen, Center for Ecological and Evolutionary Studies

2010 Netherlands Institute of Ecology, Center for Estuarine and Coastal Ecology

2010 University of Massachusetts – Boston, Department of Biology

2010 Texas A&M University – Corpus Christi, Department of Life Sciences

2009 Coastal & Estuarine Research Federation, Hypoxia Impacts on Coastal Ecosystems

2009 Boston University, Department of Biology

2008 Harvard University, Harvard Forest

2008 Florida International University, Department of Biological Sciences

2007 San Diego State University, Department of Biology

2007 NOAA – Ecological Impact of Hypoxia on Living Resources Symposium & Workshop

2007 University of California Davis, Center for Population Biology

2007 University of Rhode Island, Graduate School of Oceanography

2006 Save the Bay (Narragansett Bay region's largest restoration and outreach NGO)

2006 U.S. Environmental Protection Agency, New England Regional Office
 2006 University of Rhode Island, Department of Biological Sciences
 2006 University of New Hampshire, Department of Natural Resources
 2005 University of California Davis, Bodega Marine Laboratory
 2005 Duke University Marine Laboratory
 2005 3rd Annual Ronald C. Baird Sea Grant Science Symposium on RI Coastal Ecosystems
 2002 Northeastern University, Marine Science Center

CONTRIBUTED PRESENTATIONS

(Recent seven years; Underline indicates student author)

Saldaña, P.H., C. Angelini, A. Altieri (2023) Grateful for the dead: dead foundation species drive ecosystem dynamics. Coastal and Estuarine Research Federation 27th Biennial Conference.

Boyd, A., N. Walker, S.R. Valdez, Y.S. Zhang, A. Altieri, V. Gulis, C.M. Crain, B.R. Silliman (2023) Invertebrate grazing on live turtlegrass (*Thalassia testudinum*): a common interaction that can facilitate fungal infection. Coastal and Estuarine Research Federation 27th Biennial Conference.

Sakr, A., C. Angelini, E. Milbrandt, A. Altieri. Evaluating Alternative Oyster Garden Structures and Materials in a Residential Canal System (2023) Coastal and Estuarine Research Federation 27th Biennial Conference.

Hay, B. and A. Altieri (2023) Testing responses to sediment addition in a marsh-mangrove ecotone. Coastal and Estuarine Research Federation 27th Biennial Conference.

B. Marin Diaz, C. Angelini, A. Altieri (2023) Exploring feedbacks preventing seagrass colonization and passive restoration techniques. Coastal and Estuarine Research Federation 27th Biennial Conference.

A. Altieri, A. Guariniello, A. Maruniak, G. Reyes, A. Sakr (2023) Harnessing facilitation cascades in the design of coastal green infrastructure. Coastal and Estuarine Research Federation 27th Biennial Conference.

A. Lowell, D. Kline, A. Altieri, N. Lucey, C. Finelli, R. Thacker, B. Peterson (2023) Assessing physiological acclimation potential of *Porites porites* along a density gradient of *Thalassia testudinum*. Coastal and Estuarine Research Federation 27th Biennial Conference.

N.S. Knight, A.J. Sellers, F. Guichard, M. Leray, M. Torchin, A. Altieri. Linking damselfish performance and distribution across a tropical upwelling mosaic. Coastal and Estuarine Research Federation 27th Biennial Conference.

Swaminathan, S.D. and A.H. Altieri (2023) Recent heatwave shifts coral reef communities in unexpected ways. Western Society of Naturalists 104th Annual Meeting.

Sakr, A., C. Angelini, E. Milbrandt, A. Altieri (2023) Evaluating Alternative Oyster Garden Structures and Materials in a Residential Canal System. 23rd Annual Meeting of the American Ecological Engineering Society.

Mallon, J.E., V. Paul, A. Demko, J. Sneed, L. Newman, C. Melendez-Declat, E. Hall, A. Quasenella, M. Sante, T. Cyronak, A. Altieri, M.D. Johnson (2003) Ocean deoxygenation

impacts on coral metabolism, larval settlement and recruit survivorship. 40th Annual Scientific Meeting of the Association of Marine Laboratories of the Caribbean.

Altieri, A. H., K.B. Gedan, M. Leray, N. Lucey, L.M. Rodriguez, H.R. Nelson, J.J. Scott, S.D. Swaminathan, W.L. Wied, M.D. Johnson (2023) The resilience of coral reefs to ocean deoxygenation. 51st Annual Benthic Ecology Meeting.

Pezner, A., C. Dougan, R. Mason, J. Ha, A. Altieri, V. Paul, M. Johnson (2023) Experimental impacts of coral reef deoxygenation: A multi-stressor approach. 51st Annual Benthic Ecology Meeting.

Marin-Diaz B., A.H. Altieri, C. Angelini (2022) Unravelling feedbacks preventing seagrass colonization. Restore American's Estuaries - Coastal & Estuarine Summit.

Saldaña, P., N. Goetz, A. Altieri (2022) Rethinking the roles of non-trophic and trophic interactions on coral accretion rates in degraded reef systems. 15th International Coral Reef Symposium.

Swaminathan, S., M Johnson, J. Meyer, V. Paul, A. Altieri (2022) Resilience of the *Acropora cervicornis* microbiome to hypoxia and host physiological stress. 15th International Coral Reef Symposium.

Johnson, M., S. Swaminathan, E. Nixon, V. Paul, A. Altieri (2022) Reef-building corals exhibit high tolerance to severe deoxygenation. 15th International Coral Reef Symposium.

Howard, R., M. Schul, L. Rodriguez, A. Altieri, J. Meyer (2022) Shifts in the coral microbiome in response to in situ experimental deoxygenation. 15th International Coral Reef Symposium.

Altieri, A., M. Johnson, N. Lucey, M. Leray, J. Scott, L. Rodriguez, W. Wied (2022) 15th International Coral Reef Symposium. Coral bleaching and microbial shifts during a hypoxic event on a Caribbean coral reef. 15th International Coral Reef Symposium.

Stewart, H., J. Wright, M. Carrigan, A. Altieri, D. Kline, R. Araújo (2022) Coral forests: Nested coexisting mangrove-coral habitats. 15th International Coral Reef Symposium.

Saldaña, P.H., S.B. Alford, C. Angelini, S.M. Crotty, K. Earl, A. Mainella, K.D. Prince, C.R. Sullivan, A.H. Altieri (2022) Grateful for the dead: the widespread importance of dead foundation species for biodiversity, ecosystem function, and resilience. 50th Annual Benthic Ecology Meeting.

Swaminathan, S.D., K. Lafferty, A.H. Altieri (2022) Responses of Benthic and Reef Fish Assemblages to Stony Coral Tissue Loss Disease. 50th Annual Benthic Ecology Meeting.

Saldaña, P.S., N.A. Goetz, H. Vaughan, A.H. Altieri (2023) Friend of the dead: zoanthids decrease urchin-induced erosion of dead coral. 5th Biennial North Florida Marine Science Symposium, Marineland, FL.

Marin-Diaz B., A.H. Altieri, C. Angelini (2023) Exploring feedbacks preventing seagrass colonization and passive restoration techniques. 5th Biennial North Florida Marine Science Symposium, Marineland, FL.

Swaminathan, S.D., K. Lafferty, A.H. Altieri (2023) Stony Coral Tissue Loss Disease threatens reef fish by altering benthic communities. 5th Biennial North Florida Marine Science Symposium, Marineland, FL.

Altieri, A.H., K.B. Gedan, M. Leray, N. Lucey, L.M. Rodriguez, H.R. Nelson, M.D. Schul, J.J. Scott, S.D. Swaminathan, W.L. Wied, M.D. Johnson (2022) Patterns of coral reef resilience in response to ocean deoxygenation. Ocean Science Meeting.

Swaminathan, S.D., K. Lafferty, and A.H. Altieri (2022) Stony Coral Tissue Loss Disease threatens reef fish by altering benthic communities. Western Society of Naturalists meeting.

Saldaña, P.S., E.C. Milbrandt, A.R. Smyth, A.H. Altieri (2022) Macroalgae decay rates and diversity effects on sediment biogeochemistry in a Florida estuary. University of Florida Water Institute Symposium, Gainesville, FL. Poster presentation.

Morrison, E., E. Philips, S. Badylak, A. Altieri, A. Chappel, D. Tomasko, M. Beck, E. Sherwood (2021) Insights from Piney Point: Using convergent research to evaluate the effects of anthropogenic nutrients on nearshore ecosystems. American Geophysical Union Fall Meeting.

Morrison, E., E. Philips, S. Badylak, A. Altieri, S. Scolaro, E. Sherwood (2021) Tracking the effect of engineered system failures on nearshore nutrient loads, macroalgae and phytoplankton communities. Coastal and Estuarine Research Federation 26th Biennial Conference.

Johnson, M.D., S.D. Swaminathan, E.N. Nixon, V.J. Paul, A.H. Altieri (2020) Resistance of a reef-building coral to hypoxia. Ocean Sciences Meeting, Association for the Sciences of Limnology and Oceanography.

Adelson, A.E., K.A. Davis, S.N. Giddings, R. Collin, V. Reed, A.H. Altieri, G.R. Pawlak (2020) Physical mechanisms of hypoxic events and temperature inversions in Bahia Almirante, a shallow tropical embayment in Bocas del Toro, Panama. Ocean Sciences Meeting, Association for the Sciences of Limnology and Oceanography.

Altieri, A.H., M.D. Johnson, M. Leray, N. Lucey, L.M. Rodriguez, J.J. Scott, W.L. Wied (2020) Deoxygenation over coral reefs triggers coral bleaching and microbial community shift. 4th Biennial North Florida Marine Science Symposium.

Saldaña, P.H., N.A. Goetz, and A.H. Altieri (2020) Movement and erosional effects of a highly abundant reef consumer are mediated by a newly dominant space-holder. 4th Biennial North Florida Marine Science Symposium.

Swaminathan, S.D., M.D. Johnson, V.J. Paul, A.H. Altieri¹ (2020) Light exposure mediates susceptibility of juvenile *P. astreoides* to oxygen depletion. 4th Biennial North Florida Marine Science Symposium.

Wied, W.L., A.H. Altieri, J. Campbell, O.K. Rhoades (2019) Fish functional groups vary in their nutrient provisioning in a tropical seagrass bed. 25th Biennial Coastal and Estuarine Research Federation Conference.

Campbell, J., O.K. Rhoades, A.H. Altieri, J.G. Douglass, V.J. Paul, K.L. Heck

(2019) The tropicalization of Western Atlantic seagrass beds: Brief insights from a large-scale coordinated network. 25th Biennial Coastal and Estuarine Research Federation Conference.

Rhoades, O.K., W.L. Wied, A.H. Altieri, S.C. Barry, S. Jones, C.W. Martin, O. O'Shea, C.J. Patrick, V.J. Paul, L.K. Reynolds, B. van Tussenbroek, J. Campbell (2019) Predation and herbivory across spatial and temporal scales: a fishy tale. 25th Biennial Coastal and Estuarine Research Federation Conference.

Cannon, A.L., C. Peña, E. Brown, A. O'Dea, A.H. Altieri, J.E. Smith (2019) Invasion of the reef urchins: Impact of Echinometra on seagrass beds in Bocas del Toro. 25th Biennial Coastal and Estuarine Research Federation Conference.

Altieri, A.H., M.D. Johnson, M. Leray, N. Lucey, L.M. Rodriguez, J.J. Scott, W.L. Wied (2019) Deoxygenation over coral reefs triggers coral bleaching and microbial community shift. 25th Biennial Coastal and Estuarine Research Federation Conference.

Clever, F., R.F. Preziosi, B. Nguyen, O. McMillan, A. Altieri, M. Leray (2019) Metabarcoding reveals dietary versatility of coral reef fishes in response to habitat degradation. British Ecological Society Meeting.

Nguyen, B.N., A.H. Altieri, N. Knowlton, G. Paulay, R.M. Lasley, F. Michonneau, G.C. Kupiec, J.L. O'Donnell, W.O. McMillan, K.A. Crandall, M. Leray (2019) Metabarcoding a tropical lagoon: Diversity patterns across habitats, taxa, and body sizes. Annual Meeting of the Ecological Society of America.

Altieri, A.H., C. Angelini, M.J. Bishop, P.E. Gribben, M.S. Thomsen, D.M. Watson (2019) Are facilitation cascades all wet? Broadening recognition of the facilitation cascade concept after a decade of research. 48th Annual Marine Benthic Ecology Meeting.

Staaterman, E., A.J. Gallagher, P.E. Holder, C.H. Reid, A.H. Altieri, M.B. Ogburn, J.L. Rummer, S.J. Cooke (2019) Apparent sensitization to boat noise in wild reef fish. Aquatic Noise.

Clever, F., R.F. Preziosi, B. Nguyen, O. McMillan, A. Altieri, M. Leray (2019) Metabarcoding reveals Dietary Versatility of Coral Reef Fishes in Response to Habitat Degradation. 8th International Barcode of Life Conference.

Adelson, A., G. Pawlak, K. Davis, R. Collin, A. Gaul, V. Reed, A. Altieri, S. Giddings (2019) Hypoxic events in Bahía Almirante, a semi-enclosed tropical embayment. Ocean Sciences Meeting, Association for the Sciences of Limnology and Oceanography.

MacKenzie, K.M., D.R. Robertson, A.H. Altieri, J. Adams, B.L. Turner (2018) Isotopic characterization of an inshore tropical pelagic ecosystem: The Bay of Panama. 11th International Conference on the Applications of Stable Isotope Techniques to Ecological Studies.

Johnson, M.D., L. Rodriguez, A. H. Altieri (2018) Variable environments inhibit crustose coralline growth and acclimation to ocean acidification. Gordon Research Conference - Ocean Global Change Biology.

Cannon, A.L., C. Peña, E. Brown, A. ODea, A. H. Altieri, J.E. Smith (2018) The Role of Grazing by Fish and Sea Urchins in Structuring Seagrass Beds in Bocas del Toro, Panamá. 71st annual conference of the Gulf and Caribbean Fisheries Institute.

Nguyen, B.N., A.H. Altieri, N. Knowlton, G. Paulay, W.O. McMillan, K.A. Crandall, M. Leray, (2018) Are coral reefs really the most diverse tropical shallow-water habitats? 99th Annual Western Society of Naturalists Meeting.

Salas, A.K., P.S. Wilson, M.S. Ballard, A.H. Altieri, T.H. Keitt (2017) The role of intermittent, short range cues on larval fish settlement. 41st Annual Larval Fish Conference.

Altieri, A.H., S.B. Harrison, H.R. Nelson, J. Seemann, R. Collin², R.J. Diaz, N. Knowlton (2017) Tropical dead zones and mass mortalities on coral reefs. 24th Biennial Coastal and Estuarine Research Federation Conference.

Nelson, H.R. and A.H. Altieri (2017) Coral reefs: Extreme oxygen environments? 24th Biennial Coastal and Estuarine Research Federation Conference.

Altieri, A.H., C. Angelini, M.D. Bertness, J.F. Bruno, C.M. Crain, A.D. Irving, B.R. Silliman, J. van de Koppel, B.K. van Wesenbeeck (2017) Ecological lessons from the rolling stones: Bertness lab adventures on cobblestone beaches. 45th Annual Marine Benthic Ecology Meeting.

Chin, D.W., A.H. Altieri, B.J. Peterson (2017) The influence of biogeochemistry and predation on chemosymbiotic clams (Lucinidae) in tropical seagrass beds. 45th Annual Marine Benthic Ecology Meeting.

Salas, A.K.; P.S. Wilson, A.H. Altieri, M.S. Ballard, T.H. Keitt (2017) Predicting the cuescape from the reef soundscape and its role in larval fish settlement. Acoustical Society of America and the European Acoustics Society joint meeting.

Altieri, A.H., S.B. Harrison, J. Seemann, R. Collin, R.J. Diaz, N. Knowlton (2016) The threat of tropical dead zones to coral reefs. 4th International Marine Conservation Congress.

Courtier, C.A., A. O'Dea, and A.H. Altieri (2016) Changes in the intensity of damselfish algal gardening in Bocas del Toro, Panama over 7000 years. 13th International Coral Reef Symposium.

Seeman, J., A. Yingst, R. Stuart Smith, J.E. Campbell, J.E. Duffy, A.H. Altieri (2016) MarineGEO study: Sponges and habitat connectivity support fish communities in degraded reef habitats. 13th International Coral Reef Symposium.

Witman, J.D., F. Smith, M. Brandt, S. Banks, A.H. Altieri, E. Moore, R. Lamb (2016) Asymmetric, large scale community responses to climate oscillations in Galapagos subtidal ecosystems. 13th International Coral Reef Symposium.

Altieri, A.H., S.B. Harrison, J. Seemann, R. Collin, R.J. Diaz, N. Knowlton (2016) Tropical dead zones and the collapse of coral reefs. 13th International Coral Reef Symposium.

Salas, A.K., P.S. Wilson, M.S. Ballard, A.H. Altieri, and T.H. Keitt (2016) Soundscape variation across four coral reefs in Caribbean Panama. 12th International Congress on the Biology of Fishes.

Schile, L., J.P. Megonigal, A.H. Altieri (2016) Variation in tidal wetland and mangrove storage across climate gradients. Society of Wetland Scientists 2016 Annual Meeting.

Gedan, K.B, A.H. Altieri, R.B. Burrell, I.C. Feller, and D.L. Breitburg (2016) Macrofaunal communities persist in mangrove ponds with pulsed hypoxic and acidic conditions. 44th Annual Marine Benthic Ecology Meeting.

Altieri, A.H. and J.D. Witman (2015) Modular mobile foundation species as reservoirs of biodiversity. 43rd Annual Marine Benthic Ecology Meeting.

MacKenzie, K., C. Trueman, B. Turner, A.H. Altieri, R. Robertson (2015) The importance of upwelling to oceanic top predators. 9th International Conference on the Applications of Stable Isotope Techniques to Ecological Studies.

Witman, J.D., F. Smith, M. Brandt, S. Banks, A.H. Altieri, E. Moore, R.W. Lamb (2015) Asymmetric, large-scale community responses to climate oscillations in Galapagos subtidal ecosystems. 43rd Annual Marine Benthic Ecology Meeting.

Johnston, L., J. Campbell, V. Paul, A.H. Altieri, C. Kuempel, J.E. Duffy, (2015) The responses of tropical seagrass epiphytes to alterations in nutrient supply and grazer abundance. 43rd Annual Marine Benthic Ecology Meeting.

Campbell, J., L. Johnston, V. Paul, C. Kuempel, A.H. Altieri, J.E. Duffy (2015) Responses of tropical seagrass meadows (*Thalassia testudinum*) to experimental manipulations of nutrient supply and consumer abundance. 43rd Annual Marine Benthic Ecology Meeting.

PROFESSIONAL ACTIVITIES & SERVICE

Professional affiliations

American Association for the Advancement of Science, American Association of Underwater Scientists, American Institute of Biological Sciences, Ecological Society of America, Estuarine Research Federation, International Coral Reef Society, New England Estuarine Research Society, Sigma Xi, Western Society of Naturalists.

Affiliate faculty status within home institution

Center for Coastal Solutions
Florida Climate Institute
Florida Sea Grant
Invasive Species Research Institute
School of Natural Resources and Environment
UF Water Institute

Workshops and Working groups

Biological Condition Gradients, Narragansett Bay Estuaries Program
Deoxygenation in tropical marine ecosystems, King Abdullah U of Science and Technology
Ecological Impacts of Hypoxia on Living Resources, NOAA
Ecosystem Models for Coupled Human and Natural Systems, PEW Marine Fellows Meeting
Facilitations Cascades Across Ecosystems and Scales, University of Canterbury
Global Change and the Emerging Threat of Dead Zones, American Physiological Society
Global Ocean Oxygen Network (GO₂NE), UNESCO
Invasive Species Working Group, University of Florida

Linking environmental conditions across landscapes and seascapes to biodiversity and human welling being in Bahia Almirante, Smithsonian Tropical Research Institute
 Narragansett Bay Interdisciplinary Working Group, Brown University, EPA, NOAA
 Science Symposium on Rhode Island Coastal Ecosystems, RI Sea Grant

Manuscript reviewer

Acta Oecologica; American Naturalist; Annals of Botany; Aquatic Ecology; Aquatic Invasions; Biological Bulletin; Biological Invasions; Coasts and Estuaries; Communications Earth & Environment; Conservation Biology; Conservation Physiology; Coral Reefs; Ecography; Ecology Letters; Ecology; Ecosystems; Ecosphere; Environmental Science & Technology; Estuaries and Coasts; Estuarine, Coastal, and Shelf Science; Frontiers in Marine Science; Global Change Biology; Journal of Animal Ecology; Journal of Applied Ecology; Journal of Ecology; Journal of Experimental Marine Biology and Ecology; Journal of Shellfish Biology; Journal of the Marine Biological Association of the United Kingdom; Limnology and Oceanography; Marine Biology; Marine Ecology Progress Series; Marine Environmental Research; Nature; Nature Communications; Nature Ecology and Evolution; Oecologia; Oikos; PeerJ; PLoS ONE; Science Advances; Scientific Reports; Trends in Ecology & Evolution

Proposal reviewer

AAUS Student Scholarship; Biodiversa; FONDECYT, Chile; New Hampshire Sea Grant; NSF, Biological Oceanography; NSF, Coastal SEES (Panelist); NSF Ecosystems; NSF, OCE Long Term Ecological Research; NSF, Population and Community Ecology; NSF, Postdoctoral Research Fellowship in Biology (Panelist); National Estuarine Research Reserve Graduate Student Fellowship; National Geographic, Young Explorers Grant; Netherlands Organisation for Scientific Research; Rhode Island Sea Grant

Service within home institution

Lead organizer, North Florida Marine Science Symposium
 Search committee, Director of Invasion Science Institute, Univ of Florida
 IDEA Committee (Inclusion, Diversity, Equity, & Access), ESSIE, Univ of Florida
 Diving Safety Board, Univ of Florida
 Sabbatical Committee, College of Engineering, Univ of Florida
 Student Award Committee, ESSIE, Univ of Florida
 Committee for Website and Communication Strategy, ESSIE, Univ of Florida
 Search Committee, Computational Sustainability faculty position, Univ of Florida
 Academic Board (fellowship and internship committee), STRI
 Diving Safety Officer Search Committee, STRI
 Internship Coordinator Search Committee, STRI
 Postdoc Fellowship Selection Committee, Marine Science Network, STRI
 Postdoc Fellowship Selection Committee, Tennenbaum Marine Observatories/MarineGEO
 Executive Committee, Tennenbaum Marine Observatories/MarineGEO
 Site PI for Panama, Tennenbaum Marine Observatories/MarineGEO
 Burch Fellowship Selection Committee, Smithsonian Institution