

CURRICULUM VITAE

Anna R. Armitage, Ph.D. • Assistant Professor
Departments of Marine Biology and Ecosystem Science and Management
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Research interests: Trophic organization in benthic coastal habitats; trophic and community-level effects of coastal eutrophication; population and community structure of restored and disturbed habitats; ecology of coastal wetlands, salt marshes, seagrass beds, invertebrates, and shorebirds

Education

2003 Ph.D., Biology
 University of California, Los Angeles

1995 B.S., Marine Biology
 University of California, Los Angeles

Professional Appointments

2006-Present Assistant Professor
 Department of Marine Biology
 Texas A&M University at Galveston
 • Teach graduate and undergraduate courses on wetland ecology; mentor graduate and undergraduate research assistants; manage an externally-funded research program; serve on university committees

2007-Present Assistant Professor, Graduate Faculty
 Dept. of Marine Sciences, Marine Resources Management Program
 Texas A&M University at Galveston
 • Mentor graduate students

2007-Present Assistant Professor, Graduate Faculty
 Department of Ecosystem Science & Management
 Texas A&M University
 • Mentor graduate students

2007-Present Adjunct Assistant Professor
 Department of Biology and Biochemistry, University of Houston
 • Mentor graduate students

2003-2006 Postdoctoral Research Associate
 Southeast Environmental Research Center and Department of Biological Sciences, Florida International University, Miami
 • Conducted research on coastal and seagrass ecology; mentor graduate and undergraduate research assistants.

Peer-reviewed publications (19 total, listed in reverse chronological order; *indicates graduate students, # indicates undergraduate students, [◊]indicates postdoctoral research associates)

- *Staszak, L.A. and **A.R. Armitage**. In press. Evaluating salt marsh restoration success with an index of ecosystem integrity. *Journal of Coastal Research*.
- [◊]Madrid, E.N., **A.R. Armitage**, and A. Quigg. In press. The response of photosystem II to soil salinity and nutrients in wetland plant species of the northwestern Gulf of Mexico. *Journal of Coastal Research*.
- [◊]Madrid, E.N., A. Quigg, and **A.R. Armitage**. 2012. Marsh construction techniques influence carbon capture by emergent and submerged vegetation in a brackish marsh in the northwestern Gulf of Mexico. *Ecological Engineering* 42: 54-63.
- #Valinoti, C.E., C.-K. Ho[◊], and **A.R. Armitage**. 2011. Native and exotic submerged aquatic vegetation provide different nutritional and refuge values for macroinvertebrates. *Journal of Experimental Marine Biology and Ecology* 409: 42-47.
- Armitage, A.R.**, T.A. Frankovich, and J.W. Fourqurean. 2011. Long term effects of adding nutrients to an oligotrophic coastal environment. *Ecosystems* 14: 430-444.
- Baggett, L.P., K.L. Heck, Jr., T.A. Frankovich, **A.R. Armitage**, and J.W. Fourqurean. 2010. Nutrient enrichment, grazer identity and their effects on epiphytic algal assemblages: field experiments in sub-tropical turtlegrass (*Thalassia testudinum*) meadows. *Marine Ecology Progress Series* 406: 33-45.
- Armitage, A.R.** and J.W. Fourqurean. 2009. Stable isotopes reveal complex changes in trophic relationships following nutrient addition in a coastal marine ecosystem. *Estuaries and Coasts* 32: 1152-1164.
- Armitage, A.R.**, V. Gonzalez, and P. Fong. 2009. Decoupling of nutrient and grazer impacts on a benthic estuarine diatom assemblage. *Estuarine, Coastal and Shelf Science* 84: 375-382.
- Frankovich, T.A., **A.R. Armitage**, A.H. Wachincka, E.E. Gaiser, and J.W. Fourqurean. 2009. Nutrient effects on seagrass epiphyte community structure in Florida Bay. *Journal of Phycology* 45: 1010-1020.
- Armitage, A.R.**, S.M. Jensen, J.E. Yoon, and R.F. Ambrose. 2007. Wintering shorebird assemblages and behavior in restored tidal wetlands in southern California. *Restoration Ecology* 15: 139-148.
- Armitage, A.R.**, K.E. Boyer, R.R. Vance, and R.F. Ambrose. 2006. Restoring assemblages of salt marsh halophytes in the presence of a rapidly colonizing dominant species. *Wetlands* 26: 667-676.
- Armitage, A.R.** and P. Fong. 2006. Predation and physical disturbance by crabs reduce the relative impacts of nutrients in a tidal mudflat. *Marine Ecology Progress Series* 313: 205-213.
- Armitage, A.R.** and J.W. Fourqurean. 2006. The short-term influence of herbivory near patch reefs varies between seagrass species. *Journal of Experimental Marine Biology and Ecology* 339: 65-74.
- Armitage, A.R.**, T.A. Frankovich, and J.W. Fourqurean. 2006. Variable responses within epiphytic and benthic microalgal communities to nutrient enrichment. *Hydrobiologia* 569: 423-435.
- Gil, M., **A.R. Armitage**, and J.W. Fourqurean. 2006. Nutrients increase epifaunal abundance and shift species composition in subtropical seagrass beds. *Hydrobiologia* 569: 437-447.
- Armitage, A.R.**, T.A. Frankovich, K.L. Heck, Jr., and J.W. Fourqurean. 2005. Experimental nutrient enrichment causes complex changes in seagrass, microalgae, and macroalgae community structure in Florida Bay. *Estuaries* 28: 422-434.
- Armitage, A.R.** and P. Fong. 2004. Gastropod colonization of a created coastal wetland: potential influences of habitat suitability and dispersal ability. *Restoration Ecology* 12: 391-400.

Armitage, A.R. and P. Fong. 2004. Upward cascading effects of nutrients: shifts in a benthic microalgal community and a negative herbivore response. *Oecologia* 139: 560-567.

Boyer, K.E., P. Fong, **A.R. Armitage**, and R.A. Cohen. 2004. Elevated nutrient content of tropical macroalgae increases rates of herbivory in coral, seagrass, and mangrove habitats. *Coral Reefs* 23:530-538.

Funded research grants

Year	Agency	Title and Role	Total Award	Allocation	Award Period
2011	TX Sea Grant	Mangroves invading Texas salt marshes: Does it matter? (as Co-PI)	\$296,600	\$118,502	2/12-1/14
2011	NASA	Examining the relationships between land use change, wetland alteration, and carbon sequestration in the Gulf of Mexico. Measure wetland vegetation biomass and record CO ₂ fluxes into soils and plants (as Co-PI).	\$399,857	\$99,964	7/11-6/14
2010	TX General Land Office	Identifying ecologically effective wetland restoration techniques in coastal wetlands. Lead a monitoring study of a restored marsh constructed on dredge material (as PI).	\$120,465	\$90,348	10/10-4/12
2010	TAMU	Pathways to the Doctorate Assistantship Grant. Mentor a graduate student studying wetland ecology (as PI).	\$36,000	\$36,000	8/10-8/12
2009	TAMU	The evolving coastline of the Gulf of Mexico: how does the salinity tolerance of mangroves impact coastal community structure. Mentor a postdoc and graduate student studying physiological constraints on mangrove distribution in the Gulf of Mexico (as PI).	\$24,000	\$16,000	8/09-8/10
2008	TX General Land Office	Assessing the ecological efficacy of select wetland restoration approaches in the Northwestern Gulf of Mexico. Lead a monitoring study and conduct ecological experiments in a restored brackish marsh (as PI).	\$1,186,881	\$890,160	9/08-8/13
2008	TX Sea Grant	A comparative study of money- and energy-based valuations of ecosystem services for improving water quality in Armand Bayou, Galveston Bay. Performed surveys of wetland vegetation in eutrophic waterways; mentored a graduate student (as Co-PI).	\$59,983	\$41,988	3/08-1/10
2008	UH Env. Inst. Houston	Influences of sea level rise on the nutrient assimilation capacity of tidal brackish wetlands. Performed surveys of wetland vegetation in eutrophic waterways (as Co-PI).	\$10,000	\$10,000	1/08-8/08
2007	National Park Service	Impacts of increased freshwater flow and nutrient input on benthic community structure and trophic interactions. Led a study of nutrient enrichment impacts on seagrass communities (as Co-PI).	\$320,000	\$67,938	8/07-8/09

Internal support grants

Year	Source	Description and Role	Total Award
2009	TAMU Permanent University Fund	Acquisition of a Li-Cor LI-6400XTR Portable Photosynthesis System (as Co-PI).	\$45,380
2009	TAMUG Research and Graduate Studies Office	Acquisition of a Dionex 350 Accelerated Solvent Extraction system (as PI).	\$25,000
2008	TAMUG Research Advisory Committee and Department of Marine Biology	Acquisition of a high performance liquid chromatography system (as PI).	\$32,650

Conference abstracts (in reverse chronological order; *indicates graduate students, # indicates undergraduate students, °indicates postdoctoral research associates)

Armitage, A.R., C.-K. Ho°, E.N. Madrid°, M.T. Bell*, E.L. Kinney°, A. Quigg. June 2012. Drought and construction techniques influence ecosystem-level restoration of a brackish marsh. 9th INTECOL International Wetlands Conference.

°Kinney, E.L., **Armitage A.R.**, Quigg, A. June 2012. Effects of drought on restored and reference salt marshes in the Northwestern Gulf of Mexico. 9th INTECOL International Wetlands Conference.

Pennings, S.C., **A.R. Armitage**, H. Guo, Z. Hughes, C.A. Weaver*. April 2012. Mangroves invading Texas salt marshes: Does it matter? Texas Bays and Estuaries Annual Meeting.

#Davis, B., #Driscoll, T.G., IV, **Armitage, A.R.** March 2012. Infaunal abundance in restored and reference marshes in the northwestern Gulf of Mexico: the impact of habitat design and drought. 41st Benthic Ecology Meeting.

Armitage, A.R., M.T. Bell, C.-K. Ho, E.N. Madrid, A. Quigg. November 2011. Metapopulation dynamics in estuarine habitat restoration: Do reference areas act as source populations? Coastal and Estuarine Research Federation 21st Biennial Conference.

*Lee, C.T. and **A.R. Armitage**. November 2011. Does ecotypic-based genetic diversity of a dominant plant impact ecosystem health and stability? A case study in a restored *Spartina alterniflora* marsh. Coastal and Estuarine Research Federation 21st Biennial Conference.

*Weaver, C.A., **A.R. Armitage**, and A. Parnell. November 2011. Nutrient effects on *Spartina alterniflora* and *Avicennia germinans*: implications for competition in a marsh-mangrove ecosystem. Coastal and Estuarine Research Federation 21st Biennial Conference.

Armitage, A.R., C.-K. Ho°, E.N. Madrid°, M.T. Bell*, A. Quigg. August 2011. Built for success: Brackish marsh construction techniques influence ecosystem-level restoration success. 96th Ecological Society of America Annual Meeting.

Armitage, A.R. and A. Quigg. May 2011. Defining restoration success in brackish marshes on the Gulf of Mexico coast. International Oil Spill Conference.

*Bell, M.T. and **A.R. Armitage**. March 2011. It's an invasion! The competitive relationship between two submerged macrophytes, *Myriophyllum spicatum* and *Ruppia maritima*. 40th Benthic Ecology Meeting.

Armitage, A.R., C.-K. Ho°, A.M. Thronson, E.N. Madrid°, M.T. Bell*, A.S. Quigg. November 2010. Defining restoration success: Development of the plant canopy and ecological functions in a restored brackish marsh. Restore America's Estuaries 5th National Conference on Coastal and Estuarine Habitat Restoration.

°Ho, C.-K., **A.R. Armitage**, M.T. Bell*, A.M. Thronson, E.N. Madrid°, and A. Quigg. November 2010. Will disturbance and fertilization facilitate coastal marsh restoration? Restore America's Estuaries 5th National Conference on Coastal and Estuarine Habitat Restoration.

Herbert, D.A., **A.R. Armitage**, and J.W. Fourqurean. October 2010. Phosphorus loading and ecosystem integrity in the Florida Keys. Florida Keys Marine Ecosystems Conference and Workshop.

- Ko, J.-Y., A. Parnell*, and **A.R. Armitage**. October 2010. A comparative study of money-and energy-based valuations of ecosystem services for improving water quality in Armand Bayou, Galveston Bay. Sea Grant Texas 9th Annual Researcher Conference.
- Rezsutek, M., **A.R. Armitage**, and M. Hock. October 2010. Beneficial use of dredged material in the Texas Chenier Plain: improving future projects using lessons learned. 2010 US Army Corps of Engineers Galveston District Dredging Conference.
- Armitage, A.R.**, C.-K. Ho[◊], A.M. Thronson, E.N. Madrid[◊], M.T. Bell*, A. Quigg. August 2010. Defining restoration success: Development of the plant canopy and ecological functions in a restored brackish marsh. 95th Annual Ecological Society of America meeting.
- *Bell, M.T. and **A.R. Armitage**. March 2010. Restoration of a brackish marsh: construction design influences aquatic community composition. 39th Annual Benthic Ecology Meeting.
- *Staszak, L.A. and **A.R. Armitage**. March 2010. A modified rapid assessment method examining the ecological health of Galveston Bay wetlands. 39th Annual Benthic Ecology Meeting.
- #Valinoti, C., C.-K. Ho[◊], and **A.R. Armitage**. February 2010. Invasive aquatic vegetation alters interactions between native plants and invertebrates. 2010 ASLO Ocean Sciences Meeting.
- *Staszak, L.A. and **A.R. Armitage**. February 2010. A modified Rapid Assessment Method examining the ecological health of Galveston Bay wetlands. Texas Association of Environmental Professionals Environmental Challenges and Innovations Conference: Gulf Coast 2010.
- Armitage, A.R.**, C.-K. Ho[◊], M.T. Bell*, A. Thronson, E.N. Madrid[◊], and A.S. Quigg. November 2009. The influence of soil source and wetland construction design on the restoration of emergent coastal marshes and aquatic habitats. Petroleum Environmental Research Forum 80th meeting.
- Armitage, A.R.**, C.-K. Ho[◊], M.T. Bell*, A. Thronson, E.N. Madrid[◊], and A.S. Quigg. November 2009. Linking emergent marshes and aquatic habitats in wetland restoration. Coastal and Estuarine Research Federation 20th Biennial Conference.
- *Bell, M.T. and **A.R. Armitage**. November 2009. Restoration of a brackish marsh: construction designs influence aquatic community composition. Coastal and Estuarine Research Federation 20th Biennial Conference.
- [◊]Ho, C.-K., **A.R. Armitage**, M.T. Bell, A. Thronson, E.N. Madrid[◊], and A.S. Quigg. November 2009. Evaluating the ecological success of wetland restoration methods. Clean Gulf 2009 Conference.
- [◊]Ho, C.-K., A. Thronson, M.T. Bell, E.N. Madrid[◊], A.S. Quigg, and **A.R. Armitage**. November 2009. Assessing the ecological efficacy of select wetland restoration approaches in the northwestern Gulf of Mexico. Clean Gulf 2009 Conference.
- *Parnell, A., **A.R. Armitage**, K. Schwehr, and J.-Y. Ko. November 2009. Restored and exotic vegetation react differently to nutrient input in an urbanized watershed (Armand Bayou, Texas). Coastal and Estuarine Research Federation 20th Biennial Conference.
- #Valinoti, C., C.-K. Ho[◊], and **A.R. Armitage**. November 2009. Invasive aquatic vegetation alters interactions between native plants and invertebrates. Coastal and Estuarine Research Federation 20th Biennial Conference.
- *Weaver, C.A., **A.R. Armitage**, and J.W. Fourqurean. November 2009. Nutrient addition reduces the influence of habitat complexity on seagrass epifaunal abundance in nutrient limited conditions. Coastal and Estuarine Research Federation 20th Biennial Conference.
- *Parnell, A., J.-Y. Ko, K.A. Schwehr, and **A.R. Armitage**. September 2009. Nutrient impacts on restored and exotic aquatic vegetation: a step towards the valuation of ecosystem services in Armand Bayou, Galveston Bay. Sea Grant Texas 8th Annual Researcher Conference.
- [◊]Ho, C.-K., *M. Bell, A. Thronson, E.N. Madrid[◊], A.S. Quigg, and **A.R. Armitage**. August 2009. Are restored marshes as good as natural marshes? 94th Ecological Society of America Annual Meeting.

- *Parnell, A., **A.R. Armitage**, and J.-Y. Ko. April 2009. Restored and exotic vegetation react differently to nutrient input in an urbanized watershed (Armand Bayou, Texas). Armand Bayou Nature Center Earth Day Festival.
- Herbert, D.A., **A.R. Armitage**, and J.W. Fourqurean. March 2009. Benthic metabolism in Florida Bay is controlled by phosphorus availability. Florida Coastal Everglades LTER All Scientists Meeting.
- *Weaver, C.A., **A.R. Armitage**, and J.W. Fourqurean. March 2009. Nutrient addition reduces the influence of habitat complexity on seagrass epifaunal abundance. 38th Annual Benthic Ecology Meeting.
- Quigg, A.S. and **A.R. Armitage**. January 2009. Assessing the ecological efficacy of select wetland restoration approaches in the Northwestern Gulf of Mexico. Ninth Biennial State of the Bay Symposium.
- Armitage, A.R.**, T.A. Frankovich, and J.W. Fourqurean. December 2008. Long-term shifts in seagrass community structure follow experimental nutrient enrichment in Florida Bay. 2008 Florida Bay and Adjacent Marine Systems Science Conference.
- *Weaver, C.A., **A.R. Armitage**, and J.W. Fourqurean. December 2008. Effects of habitat complexity and nutrient enrichment on epifauna abundance and diversity in a Florida Bay seagrass system. 2008 Florida Bay and Adjacent Marine Systems Science Conference.
- Dobberstine, J., **A.R. Armitage**, C. Howard. October 2008. Comparing salt marsh ecosystem responses to different restoration techniques. Restoring America's Estuaries 4th National Conference.
- Armitage, A.R.**, A. Parnell*, and J.-Y. Ko. September 2008. Preliminary assessment of nutrient impacts on restored freshwater wetlands: A first step for valuation of ecosystem services in Armand Bayou, Galveston Bay. Sea Grant Texas 7th Annual Researcher Conference.
- Armitage, A.R.**, T.A. Frankovich, and J.W. Fourqurean. July 2008. Long-term shifts in seagrass community structure follow experimental nutrient enrichment in Florida Bay. GEER 2008: Greater Everglades Ecosystem Restoration Conference.
- Armitage, A.R.**, T.A. Frankovich, and J.W. Fourqurean. June 2008. Long-term shifts in seagrass community structure follow experimental nutrient enrichment in Florida Bay. Cooperative Ecosystem Studies Units Network 5th National Meeting.
- Armitage, A.R.** March 2008. Exploring connectivity between salt marshes and subtidal habitats. Texas Academy of Sciences 111th Annual Meeting.
- Baggett, L.P., K.L. Heck, Jr., T.A. Frankovich, **A.R. Armitage**, J.W. Fourqurean. April 2008. Stoichiometric, growth, and fecundity responses to nutrient enrichment by invertebrate grazers in sub-tropical turtlegrass *Thalassia testudinum* meadows. 37th Annual Benthic Ecology Meeting.
- Dobberstine, J., **A.R. Armitage**, C. Howard. October 2008. Comparing salt marsh ecosystem responses to different restoration techniques. Restore America's Estuaries 4th National Conference.
- Armitage, A.R.**, T.A. Frankovich, J.W. Fourqurean. November 2007. Long-term shifts in seagrass community structure follow experimental nutrient enrichment in Florida Bay. Estuarine Research Federation 19th Biennial Conference.
- Fong, P., K.E. Boyer, **A.R. Armitage**. November 2007. Macroalgae identify the relative importance of upwelling vs. terrestrial supplies of nutrients to coastal estuaries. Estuarine Research Federation 19th Biennial Conference.
- Frankovich, T.A., **A.R. Armitage**, J.W. Fourqurean, A. Wachnicka, E.E. Gaiser. November 2007. P enrichment of seagrass meadows causes changes in epiphyte community structure at different taxonomic levels. Estuarine Research Federation 19th Biennial Conference.
- Armitage, A.R.** and J.W. Fourqurean. August 2007. Trophic implications of nutrient enrichment in seagrass beds. Ecological Society of America/Society for Ecological Restoration Joint Meeting.

- Armitage, A.R.**, S.M. Jensen, J.E. Yoon, R.F. Ambrose. January 2007. Restoration of tidal wetlands in southern California for shorebirds: lessons for Galveston Bay. Galveston Bay Estuary Program Eighth Biennial State of the Bay Symposium.
- Armitage, A.R.**, M. Gil, J.W. Fourqurean. November 2006. Trophic implications of nutrient enrichment in seagrass beds: epiphytic grazer densities increase and benthic consumer diets shift. Western Society of Naturalists 87th Annual Meeting.
- Armitage, A.R.**, M. Gil, J.W. Fourqurean. March 2006. Nutrient impacts on epifaunal density, species composition, and food web complexity in a subtropical seagrass bed. Florida Coastal Everglades LTER All Scientists Meeting.
- Armitage, A.R.** and J.W. Fourqurean. October 2005. Short-term herbivore impacts and long-term implications of nutrient enrichment on seagrass species distribution. Estuarine Research Federation 18th Biennial Conference.
- Frankovich, T. A. E.E. Gaiser, **A.R. Armitage**, and J.W. Fourqurean. October 2005. Effects of nitrogen and phosphorus fertilization on epiphytic diatom communities. Estuarine Research Federation 18th Biennial Conference.
- Armitage, A.R.** and J.W. Fourqurean. April 2005. Acute influence of herbivory on seagrass distribution and the long-term implications of nutrient enrichment. 34th Annual Benthic Ecology Meeting.
- Baggett, L.P., K.L. Heck Jr., **A.R. Armitage**, T.A. Frankovich, and J.W. Fourqurean. April 2005. The effects of nutrient enrichment on the seagrass *Thalassia testudinum* and its associated epiphyte grazers in Florida Bay, USA. 34th Annual Benthic Ecology Meeting.
- Armitage, A.R.**, T.A. Frankovich, K.L. Heck, Jr., and J.W. Fourqurean. March 2005. Experimental long-term nutrient enrichment causes complex changes in seagrass and epiphyte community structure in Florida Bay. Florida Coastal Everglades LTER All Scientists Meeting.
- Armitage, A.R.**, T.A. Frankovich, J.W. Fourqurean, and K.L. Heck, Jr. August 2004. Community response to N and P enrichment along a gradient of nutrient limitation in Florida Bay seagrass beds. Ecological Society of America 89th Annual Meeting.
- Armitage, A.R.**, T.A. Frankovich, J.W. Fourqurean, and K.L. Heck, Jr. March 2004. Seagrass community structure response to phosphorus enrichment varies along a gradient of nutrient limitation in Florida Bay. 33rd Annual Benthic Ecology Meeting.
- Armitage, A.R.** and P. Fong. September 2003. Effects of habitat-modifying crabs on community structure in muddy and sandy tidal flats. Estuarine Research Federation 17th Biennial Conference.
- Armitage, A. R.**, T.A. Frankovich, and J.W. Fourqurean. September 2003. N vs. P limitation of benthic primary production in Florida Bay. LTER All Scientists Meeting.
- Fong, P., K.E. Boyer, and **A.R. Armitage**. September 2003. The North versus the South: Are nutrient dynamics fundamentally different in California estuaries? Estuarine Research Federation 17th Biennial Conference.
- Armitage, A.R.** and P. Fong. August 2003. Trophic-level effects of habitat-modifying crabs in muddy and sandy tidal flats. Ecological Society of America 88th Annual Meeting.
- Armitage, A.R.** and P. Fong. April 2003. Successes and shortcomings in habitat restoration: a case study of *Cerithidea californica* (Gastropoda) colonization and fitness in a created tidal mudflat. California Estuarine Research Society Inaugural Meeting.
- Fong, P., K.E. Boyer, and **A.R. Armitage**. April 2003. The North versus the South: Are nutrient dynamics fundamentally different? California Estuarine Research Society Inaugural Meeting.
- Armitage, A.R.** and P. Fong. November 2002. Interactive effects of nutrient enrichment and predation on the gastropod *Cerithidea californica* differ in natural and restored coastal wetlands in southern California. Western Society of Naturalists 83rd Annual Meeting.
- Armitage, A.R.** and J.E. Yoon. November 2002. Spatial scale variability in wintering shorebird use of coastal wetland restoration sites. Western Society of Naturalists 83rd Annual Meeting.

- Boyer, K.E., P. Fong, **A.R. Armitage**, and R.A. Cohen. November 2002. Elevated nutrient content of tropical macroalgae increases rates of herbivory in coral, seagrass, and mangrove habitats. Western Society of Naturalists 83rd Annual Meeting.
- Armitage, A.R.** and J.E. Yoon. September 2002. Spatial scale variability in wintering shorebird use of coastal wetland restoration sites. Third North American Ornithological Conference.
- Armitage, A.R.**, P. Fong, and R.R. Vance. November 2001. Top-down and bottom-up forces in restored and natural mudflats in a southern California estuary. Estuarine Research Federation 16th Biennial Conference.
- Armitage, A. R.**, P. Fong, and R. R. Vance. November 2001. Top-down and bottom-up forces in restored and natural mudflats in a southern California estuary. Western Society of Naturalists 82nd Annual Meeting.
- Fong, P., K.E. Boyer, and **A.R. Armitage**. May 2001. Determining the relative importance of terrestrial and oceanic sources of nutrients to estuaries along the west coast of the US. Southern California Academy of Sciences.
- Fong, P., K.E. Boyer, and **A.R. Armitage**. June 2000. Macroalgal N and P content reflects latitudinal gradients and water residence times in estuaries, bays, and rocky shores along the west coast of the US. American Society of Limnology and Oceanography Summer Meeting.

Invited lectures (in reverse chronological order)

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| June 2012 | Coastal marshes: What are they worth? Lecture to Lafitte's Cove Nature Society. |
| March 2012 | Restoring coastal wetlands: How? And why? Lecture to Armand Bayou Nature Center volunteers. |
| February 2012 | Ecological assessments of wetland restoration success at multiple spatial scales. Rice University Department of Ecology and Evolutionary Biology seminar. |
| April 2011 | Using ecological principles to define habitat restoration success. University of Texas Marine Science Institute seminar. |
| September 2010 | Using ecological principles to define habitat restoration success. Department of Ecosystem Science and Management, Texas A&M University. |
| March 2010 | Using ecology to improve habitat restoration and management. Sam Houston State University. |
| October 2009 | Applying studies of consumer and nutrient interactions to habitat restoration and management. Harte Research Institute, TAMU-CC |
| October 2009 | Using ecology to improve habitat restoration and management. Galveston Bay Area Chapter of the Texas Master Naturalists quarterly meeting, La Marque, TX |
| November 2008 | Applying studies of consumer and nutrient interactions to habitat restoration and management. Dauphin Island Sea Lab, Dauphin Island, Alabama |
| May 2008 | Applying studies of consumer and nutrient interactions to habitat restoration and management. Texas Parks and Wildlife Dept. Water Quality Team Meeting, Austin, TX |
| March 2007 | Applying studies of consumer and nutrient interactions to habitat restoration and management. University of Houston Dept. of Biology and Biochemistry, Houston, TX |

Teaching and supervisory experience

Undergraduate courses taught

Coastal Plant Ecology (MARB 430)

Seminar in Marine Biology: Communication in the Scientific Community (MARB 482)

Directed Independent Study (MARB 491)

Graduate courses taught

Professional Development (MARB 689)

Ecosystem Processes in Marine Environments (MARB 689)

Southeastern Wetland Ecosystems Field Trip (MARB/RLEM 689)

Seminar: Readings in Ecology (MARB/ESSM 689)

Coastal Plant Ecology (MARB 689)

Directed Independent Study (MARB 691)

Graduate students advised

Current students

	<u>Department/University</u>	<u>Degree</u>	<u>Role</u>
Courtney Lee	MARB/TAMUG	MS	Chair
Kristen Onsgard	MARB	PhD	Chair
Cara Valinoti	ESSM/TAMU	MS	Co-Chair
Carolyn Weaver	ESSM/TAMU	PhD	Chair
Terry Stringer	ESSM/TAMU	MNRD	Chair
Sean Carver	HORT/TAMU	MS	Member
Michael Dance	WFSC/TAMU	PhD	Member
Jessica Lunt	Life Sci./TAMU-Corpus Christi	MS	Member
Maria Meza-Lopez	EEB/Rice University	PhD	Member
Rika Muhl	WFSC/TAMU	MS	Member
Fangyuan Qu	OCNG/TAMU	PhD	Member

Graduate degrees awarded

	<u>Department/University</u>	<u>Degree</u>	<u>Date awarded</u>	<u>Role</u>
Michael Bell	MARB/TAMUG	MS	5/2011	Chair
Allison Parnell	MARS/TAMUG	MARM	5/2011	Co-Chair
Lindsey Staszak	MARS/TAMUG	MARM	8/2010	Chair
Hongyu Guo	Biology/U. Houston	PhD	5/2011	Member
Alana Lynes	Biology/U. Houston	MS	4/2008	Member
Juan Jimenez	Biology/U. Houston	PhD	4/2008	Member
Leslie Rulon	MARS/TAMUG	MARM	11/2010	Member
Jeff Simms	WFSC/TAMU	MS	5/2009	Member

Postdoctoral fellows advised

Chuan-Kai Ho (9/2008 – 1/2011)

Eric Madrid (1/2009 – 8/2011)

Erin Kinney (11/2011 – present)

Collaborators (last 48 months)

Dauphin Island Sea Lab: Lesley P. Baggett, Kenneth L. Heck, Jr.

Florida International University: Ligia Collado-Vides, Thomas A. Frankovich, Evelyn E. Gaiser, Melissa Gil, Darrell Hebert, Michael Heithaus, Ania Wachnicka

Instituto de Ecologia, A.C.: Jorge A. López-Portillo

Lee College: Jim Dobberstine

San Francisco State University: Katharyn E. Boyer

Southern Georgia University: Risa A. Cohen

Texas A&M University at Galveston: Sam Brody, Wesley Highfield, Thomas Illiffe, Jae-Young Ko, Patrick Louchouart, Antonietta Quigg

University of California Los Angeles: Richard F. Ambrose, Vanessa Gonzalez, Peggy Fong, Stacey M. Jensen, Richard R. Vance, Joy Yoon

University of Houston: Steven C. Pennings

University of Houston Clear Lake: Cindy Howard

Graduate and Postdoctoral Advisors

Peggy Fong; University of California Los Angeles

Richard R. Vance; University of California Los Angeles

James W. Fourqurean; Florida International University

Awards and honors

2010 Newsmaker Image Award for noteworthy contributions in creating a positive image of Texas A&M University during media coverage of the Gulf Oil Spill

2009 Outstanding Reviewer Citation, *Estuaries and Coasts*

Internal committee service (current)

System-level

- Chair of Graduate Recruiting and Advising Committee for the Marine Biology IDP graduate program

University-level

- MARB Representative and Vice Chair of the Faculty Advisory Committee (P. Brown, chair)
- Member of Enterprise Risk Management/Safety and Health Committee (W. McGonagle, chair)
- Member of Assessment Council (J. Alvarado-Bremer, chair)

Department-level

- Member of Departmental SACS committee (A. Quigg, chair)

External service

Executive board:

- Galveston Bay Foundation: Executive Committee member

Professional advisement for:

- Harris-Galveston Area Council, Eco-Logical Initiative
- Applied Ecological Services, Inc., Galveston East End Master Plan
- Friends of Galveston Island State Park: Adviser to Executive Board

Review panels:

- Maryland Sea Grant Omnibus 2009-2011
- Virginia Sea Grant 2012-2014 Coastal and Marine Science RFP

Journal reviews (# in last 48 months):

American Midland Naturalist (1); Aquatic Biology (1); Aquatic Ecology (1); Ecology (4); Ecosystems (3); Environmental Management (1); Environmental Monitoring and Assessment (1); Estuaries and Coasts (8); Estuarine, Coastal and Shelf Science (1); Functional Ecology (1) Global Change Biology (1); Gulf of Mexico Science (2); Hydrobiologia (1); Journal of Experimental Marine Biology and Ecology (1); Journal of Field Ornithology (1); Journal of Phycology (1); Marine and Freshwater Research (1); Marine Biology (1); Marine Ecology (1); Marine Ecology Progress Series (13); Oecologia (1); Oikos (1); Plant Ecology (1); Restoration Ecology (2); Wetlands (2)

Proposal reviews (# in last 48 months):

Galveston Graduate Student Association (2); Maryland Sea Grant (3); National Fish and Wildlife Foundation (1); National Institute for Climatic Change Research (2); National Oceanic and Atmospheric Administration, National Marine Fisheries Service, and National Science Foundation – Comparative Analysis of Marine Ecosystem Organization (CAMEO) Program (1); National Oceanic and Atmospheric Administration Center for Sponsored Coastal Ocean Research – Coastal Hypoxia Research Program (1); National Science Foundation – Biological Oceanography Program (3); National Science Foundation – CAREER Program (2); New York Sea Grant 2012-2013 (1); University of Houston Research Council Grant to Enhance and Advance Research (1); South Carolina Sea Grant (1); Virginia Sea Grant (1)

Professional society memberships

- Coastal and Estuarine Research Federation
- Ecological Society of America
- Gulf Estuarine Research Society
- Texas Academy of Sciences
- Western Society of Naturalists

Other professional organizations

- Research Fellow, Center for Texas Beaches and Shores, TAMUG
- Member of the Ecology and Evolutionary Biology faculty at TAMU-College Station
- Collaborator in the Florida Coastal Everglades Long Term Ecological Research Program
- Member of the Marine Biology Interdisciplinary Program graduate faculty

Synergistic activities

- Design and maintain lab website (www.tamug.edu/marb/armitage/) and research blog (<http://marshdispatch.blogspot.com/>) to recruit students and facilitate dissemination of recent research activities to prospective students and stakeholders
- Develop and direct salt marsh restoration activities for grade school groups and local residents on TAMUG wetland property
- Serve on the boards of local non-profit groups (e.g., Galveston Bay Foundation) and consult with local stakeholder groups (e.g., Friends of Galveston Bay State Park) about wetland management and restoration policies.