

ANNA R. ARMITAGE, PH.D.

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EXPERTISE

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; integration of coastal ecosystem processes into the management of restored and impacted habitats.

PROFESSIONAL PREPARATION

University of California Los Angeles	Biology, Marine Biology Concentration	B.S. 1995
University of California Los Angeles	Biology	Ph.D. 2003
Florida International University	Postdoctoral Research Associate, Biology	2003-06

PROFESSIONAL APPOINTMENTS

2012-Present Associate Professor, Department of Marine Biology, TAMUG
2006-2012 Assistant Professor, Department of Marine Biology, TAMUG
2007-Present Adjunct Faculty, Dept. of Biol. and Biochem., Univ. of Houston
2007-Present Graduate Faculty

- Dept. of Marine Sciences, Marine Resources Management Program, TAMUG
- Department of Ecosystem Science & Management, TAMU

SELECTED RECENT PUBLICATIONS (OUT OF 23 TOTAL PEER-REVIEWED)

Baggett, L.P., K.L. Heck, Jr., T.A. Frankovich, **A.R. Armitage**, and J.W. Fourqurean. 2013. Stoichiometry, growth, and fecundity responses to nutrient enrichment by invertebrate grazers in sub-tropical turtlegrass (*Thalassia testudinum*) meadows. *Marine Biology* 160: 169-180.

Staszak, L.A. and **A.R. Armitage**. 2013. Evaluating salt marsh restoration success with an index of ecosystem integrity. *Journal of Coastal Research* 29: 410-418.

Madrid, E.N., **A.R. Armitage**, and A. Quigg. 2012. The response of photosystem II to soil salinity and nutrients in wetland plant species of the northwestern Gulf of Mexico. *Journal of Coastal Research* 28: 1197-1207.

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.

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.

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

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.

SELECTED RECENT FUNDED RESEARCH GRANTS

Year	Agency	Title and Role	Total Award	Allocation	Award Period
2013	TX GLO	Identifying compensatory restoration techniques that maximize wildlife recovery in coastal wetlands (as PI).	\$405,779	304,334	9/13-8/15
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 (as Co-PI)	\$399,857	\$99,964	7/11-6/14
2008	TX GLO	Assessing the ecological efficacy of select wetland restoration approaches in the Northwestern Gulf of Mexico (as PI)	\$1,186,881	\$890,160	9/08-8/13

THESIS ADVISOR AND POSTGRADUATE-SCHOLAR SPONSOR

Post-doctoral scholars supervised (3); Graduate Chair or Co-Chair (9): 6 M.S., 3 Ph.D.; Graduate committee member (19): 5 M.S., 14 Ph.D.

COURSES TAUGHT

Undergraduate: Coastal Plant Ecology; Seminar in Marine Biology: Communication in the Scientific Community. *Graduate*: Professional Development; Ecosystem Processes in Marine Environments; Southeastern Wetland Ecosystems Field Trip; Seminar: Readings in Ecology; Coastal Plant Ecology

SYNERGISTIC ACTIVITIES

- Design and maintain lab website (<http://www.tamug.edu/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 executive committee for local non-profit Galveston Bay Foundation and consult with local stakeholder groups (e.g., Friends of Galveston Bay State Park, Harris-Galveston Area Council, Eco-Logical Initiative) about wetland management and restoration policies.
- Proposal reviews for National Institute for Climatic Change Research, National Oceanic and Atmospheric Administration, National Science Foundation, New York Sea Grant, South Carolina Sea Grant, Maryland Sea Grant, National Fish and Wildlife Foundation
- Manuscript reviews for *Ecology*; *Ecosystems*; *Environmental Management*; *Estuaries and Coasts*; *Estuarine, Coastal and Shelf Science*; *Hydrobiologia*; *Journal of Applied Ecology*; *Journal of Field Ornithology*; *Journal of Phycology*; *Marine and Freshwater Research*; *Marine Biology*; *Marine Ecology*; *Marine Ecology Progress Series*; *Oecologia*; *Wetlands*