

## Curriculum Vitae

### Jennifer Beseres Pollack

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#### Professional Preparation

2006	Ph.D.	Marine Science	University of South Carolina
2002	M.S.	Marine Science	University of South Carolina
1999	B.A.	Environmental Science	Northwestern University

#### Appointments

Sept 2018-present	Chair for Coastal Conservation and Restoration, Harte Research Institute for Gulf of Mexico Studies, Texas A&M University-Corpus Christi
Sept 2017-present	Associate Professor, Department of Life Sciences, Texas A&M University-Corpus Christi
Jun 2017-2019	Coordinator, Marine Biology Doctoral and Master's Program, Texas A&M University-Corpus Christi
Sept 2013-Aug 2018	Ruth Campbell Professorship in Coastal and Marine Systems Science, Texas A&M University-Corpus Christi
Aug 2011- Aug 2017	Assistant Professor, Department of Life Sciences, Texas A&M University-Corpus Christi
Jan 2011-Jan 2015	Fisheries and Mariculture Master's Program Coordinator, Texas A&M University-Corpus Christi Peace Corps Master's International Program Coordinator, Texas A&M University-Corpus Christi
Dec 2011-Jan 2012	Visiting Research Fellow, Université de La Rochelle, La Rochelle, France
Jan-Aug 2011	Professional Assistant Professor, Department of Life Sciences, Texas A&M University-Corpus Christi
2009-2011	Assistant Research Scientist, Harte Research Institute for Gulf of Mexico Studies, Texas A&M University-Corpus Christi
2007-2009	Postdoctoral Research Associate, Harte Research Institute for Gulf of Mexico Studies, Texas A&M University-Corpus Christi
2002-2006	Graduate Research Fellow, University of South Carolina & North Inlet-Winyah Bay National Estuarine Research Reserve
2000-2002	Graduate Research Assistant, University of South Carolina

#### Research Grants

2020. Coupled restoration of intertidal and subtidal oyster reef to rebuild habitat and fisheries. J. Beseres Pollack. **NOAA Community Restoration Program** - \$353,456 (3 years).
2020. Shell Bank: Enhancing coastal resiliency via shell recycling, restoration and community partnerships. J. Beseres Pollack. **Texas General Land Office Coastal Management Program** - \$125,000 (1.5 years).
2019. Living shoreline restoration in the Mission-Aransas Estuary **Texas Parks and Wildlife Department** - \$300,000 (3 years).
2019. Tidal Index of Biotic Integrity (IBI) for the Texas Coast. J. Beseres Pollack. **Texas Commission on Environmental Quality** - \$299,977 (2 years).
2019. Shell Bank: coastal resiliency through shell recycling, community engagement and habitat restoration. **Texas General Land Office Coastal Management Program** - \$99,891 (1.5 years).
2019. Restoring Serpulid Reef Habitat in Baffin Bay. J. Beseres Pollack. **Coastal Conservation Association** - \$75,000 (2 years).
2019. A multi-disciplinary ecosystem assessment of West Matagorda Bay to inform conservation of threatened and endangered species G.W. Stunz, J.C. Gibeau, E.L. Oborny, P.T. Plotkin, J. Beseres Pollack, J.R. Rooker, R.J. David Wells, M.S. Wetz. **Texas Comptroller of Public Accounts** - \$326,850 (Pollack portion; 2 years).
2019. Greening oyster reef restoration in the Gulf: evaluating biodegradable alternatives to traditional plastic mesh bagging methods. J. Beseres Pollack. **Environmental Protection Agency Gulf of Mexico Program** - \$235,662 (2 years).
2018. Evaluating the relative habitat value of intertidal and subtidal oyster reefs to improve restoration methods. J. Beseres Pollack, G. Stunz, M. Streich, J. Curtis. **Texas SeaGrant** - \$116,105 (2 years).
2018. Shell Bank: Oyster shell recycling, restoration resources, and reef resilience. J. Beseres Pollack. **Texas General Land Office Coastal Management Program** - \$99,607 (1.5 years).
2018. Assessment of Baffin Bay Serpulid reef communities as critical habitat for black drum prey resources. J. Beseres Pollack, N. Breaux. **Coastal Bend Bays and Estuaries Program** - \$30,000 (1 year).
2018. Baffin Bay's unique Serpulid reef habitat: science to advance conservation. J. Beseres Pollack, N. Breaux. **Coastal Conservation Association** - \$60,000 (1 year).
2018. Collaborative Research: Testing for local adaptation and responses to multiple stressors among populations of eastern oysters inhabiting a natural salinity gradient. J. Beseres Pollack, J. Scarpa. **National Science Foundation** - \$259,364 (3 years).
2017. Tidal Index of Biotic Integrity (IBI) for the Texas Coast. J. Beseres Pollack. **Texas Commission on Environmental Quality** - \$245,658 (2 years).
2017. A roadmap for restoration success in Texas. J. Beseres Pollack, G. Sutton. **Coastal Conservation Association** - \$120,000 (1 year).
2017. Shell Bank: oyster shell recycling, citizen engagement, hands-on learning, & reef characterization. J. Beseres Pollack. **Texas General Land Office Coastal Management Program** - \$99,942 (1.5 years).
2017. An ecosystem-based approach to assess Baffin Bay's Black Drum in different hydrological conditions. J. Beseres Pollack, T. Palmer. **Coastal Bend Bays and Estuaries Program** - \$30,000 (1 year).

2016. Connecting youth to coastal habitat restoration in Texas. J. Beseres Pollack, G. Sutton, V. Dulip, B. Almaraz, T. Palmer. **National Fish and Wildlife Foundation**. - \$249,292 (2 years).
2016. Copano Bay oyster reef restoration. J. Beseres Pollack. **HDR Engineering, Inc.** - \$22,798 (1 year).
2016. Oyster reef restoration to support fish, waterbirds, and marsh in St. Charles Bay. J. Beseres Pollack. **Coastal Conservation Association** - \$75,000 (2 years).
2016. Shell Bank: Oyster shell recycling, community involvement, student institute, and oyster response to environmental change. J. Beseres Pollack. **Texas General Land Office Coastal Management Program** - \$99,169 (1.5 years).
2015. Shell Bank: Oyster shell recycling, community engagement, teacher institute, and oyster health. J. Beseres Pollack. **Texas General Land Office Coastal Management Program** - \$99,289 (1.5 years).
2015. Freshwater inflow needs for conserving Texas oyster reefs. J. Beseres Pollack. **Harvey Weil Sportsman Conservationist Grant** - \$8,500 (1 year).
2014. Why are Black Drum starving in Baffin Bay? An ecosystem-based approach to develop community resilience and sustainable fisheries in a hypersaline estuary. G. Stunz, J. Beseres Pollack, M. Ajemian. **Texas Sea Grant**. \$120,000 (2 years).
2014. An ecosystem-based approach to why black drum are starving in Baffin Bay: phase 2. G. Stunz, J. Beseres Pollack, M. Wetz, M. Ajemian. **Coastal Bend Bays and Estuaries Program**- \$30,000 (1 year).
2014. Half Moon Reef restoration and monitoring. J. Beseres Pollack. **The Nature Conservancy** - \$125,959 (2 years).
2014. Shell Bank: Oyster shell recycling, teacher engagement, environmental stewardship, and scientific inquiry. J. Beseres Pollack. **Texas General Land Office Coastal Management Program** - \$99,482 (1.5 years).
2013. Half Moon Reef oyster reef restoration: phase 1. J. Beseres Pollack. **The Nature Conservancy** - \$335,106 (5 years).
2013. Oyster reef restoration: improving fish habitat and water quality. J. Beseres Pollack and B. Froeschke. **National Fish and Wildlife Federation**. \$127,432 (1.5 years).
2013. Oyster reef restoration: assessing the benefits to food resources in Texas Bays. J. Beseres Pollack. **Texas State Aquarium** - \$15,000 (1 year).
2013. Why are black drum starving in Baffin Bay? An ecosystem-based approach. G. Stunz, P. Montagna, J. Beseres Pollack, M. Wetz, M. Ajemian, M. Sluis. **Coastal Bend Bays and Estuaries Program**- \$60,000 (1 year).
2013. Why are Black Drum starving in Baffin Bay? J. Beseres Pollack. **Harvey Weil Sportsman Conservationist Award** - \$10,000 (1.5 years).
2013. Shell Bank: Improving oyster reef restoration through oyster shell recycling, education, and scientific inquiry. J. Beseres Pollack. **Texas General Land Office Coastal Management Program** - \$99,228 (1.5 years).
2013. A comparison of food web structure on standing versus cutoff oil rigs in the Gulf of Mexico. J. Beseres Pollack. **TAMUCC University Research Enhancement Grant** - \$5,000 (1 year).
2013. Oyster reef restoration to restore fish habitat on Lap Reef in Copano Bay. J. Beseres Pollack. **Coastal Conservation Association** - \$75,000. (2 years).
2013. Oyster reef restoration in Texas: enhancing water filtration capacity and recreational fishing in Aransas Bay near Goose Island State Park. J. Beseres Pollack. **Coastal Conservation Association** - \$75,000. (2 years).

2012. Oyster reef restoration in Texas: enhancing water filtration capacity. J. Beseres Pollack. **Gulf of Mexico Foundation-NOAA Community-based Restoration Program** - \$80,000 (1.5 years).
2012. Shell Bank: an oyster shell recycling, habitat selection and outreach program for the Texas Coastal Bend. J. Beseres Pollack. **Texas General Land Office Coastal Management Program** - \$99,825 (2 years).
2012. Applying stable isotopes to compare food webs associated with restored versus natural habitats. J. Beseres Pollack. **Texas Research Development Fund** - \$25,000 (1 year).
2012. Utilizing mineral accretion technology for oyster reef restoration. J. Beseres Pollack, S.D. Lyle, L. Lloyd, J. Adams. **Ed Rachal Foundation** - \$25,000 (1 year).
2012. Development of *Perkinsus marinus* infection on a restored oyster reef. J. Beseres Pollack. **TAMUCC Faculty Research Enhancement Grant** - \$2,200 (1 year).
2012. Improving southern flounder sport fisheries in Texas. J. Beseres Pollack. **Harvey Weil Sportsman Conservationist Award** - \$4,000 (1.5 years).
2012. Research development grant. J. Beseres Pollack. **TAMUCC New Faculty Research Development Program** - \$2,500 (1 year).
2011. Oyster reef restoration to restore fish habitat in Texas. J. Beseres Pollack and L. Smee. **Fish America Foundation / NOAA Community-based Restoration Partnership** - \$75,908 (2 years).
2011. Characterizing the oyster reef community of Sabine Lake: a before-after-control-impact study. J. Beseres Pollack and G.W. Stunz. **Texas Parks and Wildlife Department** - \$68,990 (2 years)
2011. Shell Bank: An oyster shell recycling, reef planning, and education program for the Texas Coastal Bend. J. Beseres Pollack. **Texas General Land Office Coastal Management Program** - \$99,647 (2 years).
2011. Oyster reef restoration for increasing fish habitat on Lap Reef in Copano Bay. J. Beseres Pollack. **Texas General Land Office Kills and Spills Team** - \$19,500 (1 year).
2010. Oyster reef restoration in the Texas Coastal Bend using reclaimed oyster shells to restore habitat on Lap Reef in Copano Bay. J. Beseres Pollack. **NOAA/ EPA / Gulf of Mexico Program, Gulf of Mexico Community-based Restoration Partnership** - \$95,000 (2 years).
2010. Shell Bank: An Oyster Shell Recycling Program for the Texas Coastal Bend. J. Beseres Pollack. **Texas General Land Office Coastal Management Program** - \$99,784 (2 years).
2010. Assessment of changing ecosystem services provided by marsh habitat in the Galveston Bay region. D. Yoskowitz, C. Carollo, J. Beseres Pollack. **Gulf of Mexico Foundation / NOAA** - \$73,133 (1 year).
2009. CAMEO: Building the Foundation – An Integrative Approach to Managing the Dewatering of Estuaries. P.A. Montagna, J. Gibeaut, R. McLaughlin, T. Shirley, G. Stunz, D. Yoskowitz, H.-C. Kim, and J. Beseres Pollack. **NSF / NOAA** - \$430,000 (2 years).
2009. Assessment and Prioritization of Gulf of Mexico Coastal Ecosystems Affected by Alterations in Freshwater Inflow. P.A. Montagna and J. Beseres Pollack. **EPA / Gulf of Mexico Alliance** - \$210,680 (2 years).
2009. Shell Bank: An Oyster Shell Reclamation, Storage and Recycling Program for Oyster Reef Restoration. P.A. Montagna, J. Beseres Pollack, and J. Fox. **Texas General Land Office Coastal Management Program** - \$97,034 (2 years).
2003. Regulation of macrobenthos by juvenile white shrimp, *Litopenaeus setiferus*, in southeastern salt marshes. J.J. Beseres. **NOAA / National Estuarine Research Reserve System Graduate Research Fellowship** - \$60,000 (3 years).

2003. White shrimp as predators on macrobenthos in salt marshes. J.J. Beseres. **Slocum-Lunz Foundation** - \$955 (1 year).
2002. Pacific white shrimp (*Litopenaeus vannamei*) gut passage time as a function of feed quality: comparing field versus laboratory. J.J. Beseres. **Southeastern Estuarine Research Society Crustacean Workgroup Travel Grant** - \$1,250 (1 year).
2002. Field and laboratory feeding dynamics of penaeid shrimp. J.J. Beseres. **Slocum-Lunz Foundation** - \$1,450 (1 year).

### Publications

Beseres Pollack-mentored graduate student\*; undergraduate student\*\*

### In review

- Beseres Pollack J**, Palmer TA, Williams AE (in review). Long-term monitoring reveals effects of El Niño Southern Oscillation cycles on oyster reef restoration. PLOS ONE.
- Hajovsky P, **Beseres Pollack J**, Anderson J (in review). Morphological assessment of the Eastern oyster (*Crassostrea virginica*) from the Gulf of Mexico. Journal of Shellfish Research.
- Marshall DA, La Peyre MK, Guillou G, **Beseres Pollack J**, Lebreton B (in revision). Freshwater inflow and responses from estuaries across an extensive climatic gradient: An assessment of northwestern Gulf of Mexico estuaries based on stable isotopes. Limnology and Oceanography.

### In print

- Clarkson E, **Beseres Pollack J** (2020). Characterizing fish-habitat associations through paired fisheries-independent and in-situ habitat assessments. North American Journal of Fisheries Management. DOI: 10.1002/nafm.10530.
- Palmer TA, Klein AG, Sweet S, Montagna PA, Serciano J, Hyde LJ, Wade T, Kennicutt MC, **Beseres Pollack J** (2020). Long-term changes in contamination and macrobenthic communities adjacent to McMurdo Station, Antarctica. Science of the Total Environment. <https://doi.org/10.1016/j.scitotenv.2020.142798>.
- De Santiago K, Palmer TA, Wetz MS, **Beseres Pollack J** (2020). Response of macrobenthic communities to changes in water quality in a subtropical, microtidal estuary (Oso Bay, Texas). Experimental Results; <https://doi.org/10.1017/exp.2020.44>
- Beseres Pollack J**, Palmer TA (2020) *Crassostrea virginica* dredge efficiency in Texas estuaries. Experimental Results; <https://doi.org/10.1017/exp.2019.2>.
- Aguilar D\*, Palmer TA, Lebreton B, **Beseres Pollack J** (2019). Salinity disturbance affects faunal community structure and organic matter on a restored *Crassostrea virginica* oyster reef. Estuarine, Coastal and Shelf Science; <https://doi.org/10.1016/j.ecss.2019.106267>.
- Breaux N\*, Lebreton B, Palmer TA, Guillou G, **Beseres Pollack J** (2019). Ecosystem resilience following salinity change in a hypersaline estuary. Estuarine, Coastal and Shelf Science; <https://doi.org/10.1016/j.ecss.2019.106258>.
- Lebreton B, Rivaud A, Picot L, Prevost B, Barillé, Sauzeau T, **Beseres Pollack J**, Lavaud J (2019). From ecological relevance of the ecosystem services concept to its sociopolitical use. The case study of intertidal bare mudflats in the Marennes-Oléron Bay, France. Ocean & Coastal Management 172: 41-54. <https://doi.org/10.1016/j.ocecoaman.2019.01.024>

- De Santiago K\*, Palmer TA, Dumesnil M, **Beseres Pollack J** (2019). Rapid development of restored oysters facilitates habitat provision for resident fauna. *Restoration Ecology*; doi: 10.1111/rec.12921.
- Rezek RJ\*, Lebreton B, Palmer TA, Stunz GW, **Beseres Pollack J** (2018). Structural and functional similarity of epibenthic communities on standing and reefed platforms in the northwestern Gulf of Mexico. *Progress in Oceanography* 168: 145-154. <https://doi.org/10.1016/j.pocean.2018.09.020>
- Blomberg BN\*, Palmer TA, Montagna PA, **Beseres Pollack J** (2018). Habitat assessment of a restored oyster reef in South Texas. *Ecological Engineering* 122: 48-61.
- Rubio KS\*, Ajemian M, Stunz GW, Palmer TA, Lebreton B, **Beseres Pollack J** (2018). Dietary composition of black drum (*Pogonias cromis*) in a hypersaline estuary reflects water quality and prey availability. *Journal of Fish Biology*. DOI: 10.1111/jfb.13654.
- Hutchison LM, **Beseres Pollack J**, Swanson K, Yoskowitz D (2018) Operationalizing blue carbon in the Mission-Aransas National Estuarine Research Reserve, Texas. *Coastal Management*. DOI: 10.1080/08920753.2018.1474068.
- Blomberg B\*, **Beseres Pollack J**, Montagna PA, Yoskowitz DW (2018). Evaluating the U.S. Estuary Restoration Act to inform restoration policy implementation: a case study focusing on oyster reef projects. *Marine Policy* 91: 161-166.
- Ajemian MJ, Mendenhall KS\*, **Beseres Pollack J**, Wetz MS, Stunz GW (2018) Moving forward in a reverse estuary: habitat use and movement patterns of Black Drum (*Pogonias cromis*) under distinct hydrological regimes. *Estuaries and Coasts*. <https://doi.org/10.1007/s12237-017-0363-6>.
- Rezek R\*, Lebreton B, Sterba-Boatwright B, **Beseres Pollack J** (2017). Ecological structure and function in a restored versus natural salt marsh. *PLoS One*. <https://doi.org/10.1371/journal.pone.0189871>.
- Blomberg B\*, Lebreton B, Palmer TA, Guillou G, **Beseres Pollack J**, Montagna PA (2017). Does reef structure affect food resources? A stable isotope assessment. *Marine Environmental Research*. <http://dx.doi.org/10.1016/j.marenvres.2017.03.003>.
- Rezek R\*, Lebreton B, Roark EB, Palmer TA, **Beseres Pollack J** (2017). How does a restored oyster reef develop? An assessment based on stable isotopes and community metrics. *Marine Biology* 164: 54. doi:10.1007/s00227-017-3084-2.
- Graham P\*, Palmer TA, **Beseres Pollack J** (2016). Oyster reef restoration: substrate suitability may depend on specific restoration goals. *Restoration Ecology* 25: 459-470. DOI: 10.1111/rec.12449.
- Yoskowitz D, Carollo C, **Beseres Pollack J**, Santos C, Welder K (2016). Integrated ecosystem services assessment: valuation of changes due to sea level rise in Galveston Bay, TX. *Integrated Environmental Assessment and Management*. doi: 10.1002/ieam.1798.
- Lebreton B, **Beseres Pollack J**, Blomberg B\*, Palmer TA, Adams L, Guillou G, Montagna PA (2016). Origin, composition, and quality of suspended particulate organic matter in relation to freshwater inflow in a South Texas estuary. *Estuarine, Coastal, and Shelf Science* 170: 70-82.
- Hu X, **Beseres Pollack J**, McCutcheon MR, Montagna PA, Ouyang Z (2015). Acidification of dewatering estuaries in southwestern United States. *Environmental Science & Technology* 49: 3401-3409. DOI: 10.1021/es505945p.
- Palmer TA, Uehling P\*\*, **Beseres Pollack J** (2015). Using oyster toxicity as an indicator of disturbed environments. *International Journal of Environmental Science and Technology* 12: 2111-2116. DOI 10.1007/s13762-014-0745-2
- George LM\*, De Santiago K\*\*, Palmer TA, **Beseres Pollack J** (2014). Oyster reef restoration: Effect of alternative substrates on oyster recruitment and nekton habitat use. *Journal of Coastal Conservation* 19: 13-22. doi 10.1007/s11852-014-0351-y

- Nevins JA\*, **Beseres Pollack J**, Stunz GW (2014) Characterizing nekton use of the largest unfished oyster reef in the U.S. in comparison to marsh edge and nonvegetated estuarine habitats. *Journal of Shellfish Research* 33: 1-12.
- Beseres Pollack J**, Yoskowitz D, Montagna P, Kim H-C (2013). The role and value of the nitrogen regulation ecosystem service provided by oysters in the Mission-Aransas Estuary, Texas, USA. *PLoS ONE* 8 (6), e65314. doi:10.1371/journal.pone.0065314
- Montagna PA, Palmer TA, **Beseres Pollack J** (2013). *Hydrological Changes and Estuarine Dynamics*. Springer Briefs in Environmental Science, Vol. 8, New York. 94 pp. DOI: 10.1007/978-1-4614-5833-3.
- Beseres Pollack J**, Cleveland A\*\*, Palmer TA, Reisinger AS, Montagna PA (2012). A restoration suitability index model for the eastern oyster (*Crassostrea virginica*) in the Mission-Aransas Estuary, TX, USA. *PLoS ONE* 7(7): e40839. doi:10.1371/journal.pone.0040839.
- Beseres Pollack J**, Palmer TA, Montagna PA (2011). Long-term trends in the response of benthic macrofauna to climate variability in the Lavaca-Colorado Estuary, Texas. *Marine Ecology Progress Series* 436: 67-80.
- Palmer TA, Montagna PA, **Beseres Pollack J**, Kalke RD, DeYoe HR. (2011). The role of freshwater inflow in lagoons, rivers, and bays. *Hydrobiologia* 667: 49-67.
- Beseres Pollack J**, Kim H-C, Morgan EK\*\*, Montagna PA (2011). Role of flood disturbance in natural oyster (*Crassostrea virginica*) population maintenance in an estuary in south Texas, USA. *Estuaries and Coasts* 34(1): 187-197.
- Beseres Pollack J**, Kinsey JW, Montagna PA (2009). Freshwater inflow biotic index (FIBI) for the Lavaca-Colorado Estuary, Texas, USA. *Environmental Bioindicators* 4: 153-169.
- Beseres Pollack J**, Buzzelli CP, Feller RJ (2009). Effects of shrimp predation on macrobenthos seasonal cycles. *Hydrobiologia* 627:11-128.
- Beseres Pollack J**, Mroch RM, Feller RJ. (2008). Juvenile white shrimp *Litopenaeus setiferus* predation on macrobenthic and zooplanktonic prey. *J Shellfish Res* 27: 1247-1253.
- Beseres JJ**, Feller RJ (2007). Changes in the distribution of subtidal macrobenthos due to predation by white shrimp (*Litopenaeus setiferus*). *Estuaries & Coasts* 30 (4): 591-600.
- Beseres JJ**, Feller RJ (2007). Importance of predation by white shrimp *Litopenaeus setiferus* on estuarine subtidal macrobenthos. *J Exp Mar Biol Ecol* 344: 193-205.
- Beseres JJ**, Lawrence AL, Feller RJ (2006). Practical equivalence of laboratory and field measurements of gut passage time in two penaeid shrimp species. *Mar Ecol Prog Ser* 309: 221-231.
- Beseres JJ**, Lawrence AL, Feller RJ (2005). Variation in fiber, protein and lipid content of shrimp feed – effects on gut passage times measured in the field. *J Shellfish Res* 1: 301-308.

#### Archived datasets

- de Santiago K, Palmer TA, **Beseres Pollack J** (2020). Benthic macrofauna and water quality of Oso Bay Texas, 2013-2014. Distributed by: Gulf of Mexico Research Initiative Information and Data Cooperative (GRIIDC), Harte Research Institute, Texas A&M University-Corpus Christi. doi: 10.7266/D3PCKJSF.
- Beseres Pollack J**, Palmer T, Breaux N (2019). Comparison of oyster populations sampled by dredge and quadrat. Distributed by: Gulf of Mexico Research Initiative Information and Data Cooperative (GRIIDC), Harte Research Institute, Texas A&M University-Corpus Christi. doi:10.7266/DRCEDRM3
- Reisinger A, **Beseres Pollack J**, Gibeaut J (2020). Oyster Reef Restoration Habitat Suitability Index of Texas Bays & Estuaries. Distributed by: Gulf of Mexico Research Initiative Information and Data

Cooperative (GRIIDC), Harte Research Institute, Texas A&M University–Corpus Christi.  
doi:10.7266/n7-htxh-3g51

**Beseres Pollack J**, Palmer T, Breaux N, Rubio K (2019) Benthic macrofauna abundance and biomass data collected in Baffin Bay and Laguna Madre, Texas from 2014-03-20 to 2017-07-11. Distributed by: Gulf of Mexico Research Initiative Information and Data Cooperative (GRIIDC), Harte Research Institute, Texas A&M University–Corpus Christi. doi:10.7266/ZNMDE1P0

**Beseres Pollack J**, Palmer T, Lebreton, B, Breaux N, Rubio K (2019) Stable isotope composition of organic matter, benthic macrofauna, and fish in Baffin Bay and Laguna Madre, Texas, from 2015-04-21 to 2017-08-11. Distributed by: Gulf of Mexico Research Initiative Information and Data Cooperative (GRIIDC), Harte Research Institute, Texas A&M University–Corpus Christi. doi:10.7266/PJ139ZRD

#### **Abstracts, Proceedings, and Conference Publications/Presentations:**

Beseres Pollack-mentored graduate student\*; undergraduate student\*\*

#### **Invited**

**Beseres Pollack J**. 2020. Coastal conservation and habitat restoration: A Gulf of Mexico perspective. Stony Brook Southampton University, Southampton, NY.

**Beseres Pollack J**. 2020. Ecosystem services and benefits of created reefs. San Antonio Bay Partnership 10<sup>th</sup> Anniversary Conference, Victoria, TX.

**Beseres Pollack J**. 2019. Linking basic and applied ecology to provide recommendations for managing estuarine habitats. Coastal and Estuarine Research Federation, Mobile, AL.

**Beseres Pollack J**. 2018. Oyster shell recycling and reef restoration in TX. Texas Surf Museum, Corpus Christi, TX.

**Beseres Pollack J**. 2018. Oyster shell recycling and community-based habitat restoration in TX. South Texas Botanical Garden, Corpus Christi, TX.

**Beseres Pollack J**. 2018. Oyster reef restoration in TX. Texas Maritime Museum, Houston, TX.

**Beseres Pollack J**. 2017. Oyster reef restoration: rebuilding stocks and ecosystem functions. University of Southern Mississippi, Gulf Coast Research Lab, Ocean Springs, MS.

**Beseres Pollack J**. 2016. The importance of monitoring and data dissemination for advancing habitat restoration. Building Conservation Trust Oyster Summit, Baltimore, MD.

**Beseres Pollack J**, La Peyre MG, Geiger S. 2015. Monitoring metrics for Gulf of Mexico Oysters. Invited speaker at National Research Council / National Academy of Sciences Workshop on Effective Approaches for Monitoring and Assessing Gulf of Mexico Restoration Activities, New Orleans, LA.

**Beseres Pollack J**, Montagna PA. 2014. The importance of monitoring restoration. Gulf of Mexico Summit, Houston, TX.

#### **Contributed**

Broquet NC, Selwyn JD, Vaughan D, Beseres Pollack J, Siccardi AJ, Scarpa J. 2020. Applicability of the microfragmentation technique to propagate corals in a fisherfolk community in the Philippines. U.S. Aquaculture Society, Honolulu, HI.

Margo A\*, Palmer T, **Beseres Pollack J**. 2019. Development of a bioassessment protocol for tidal stream systems along the upper Texas coast. Coastal and Estuarine Research Federation, Mobile, AL.



- Martinez MJ\*, Palmer T, Breaux N, **Beseres Pollack J.** 2019. Overcoming the odds: restoration of *Crassostrea virginica* reef in St. Charles Bay, TX. Coastal and Estuarine Research Federation, Mobile, AL.
- Martinez MJ\*, Palmer T, Breaux N, **Beseres Pollack J.** 2019. Conservation and social science: rebuilding resilient habitat and community engagement. Coastal and Estuarine Research Federation, Mobile, AL.
- Chelikowsky DJ, Steppe CN, Kuehl J, Beseres Pollack J, Fox JM, Balboa WA, Ropicki AJ, Scarpa J. Examining in situ setting of oysters in a shallow Texas bay. World Aquaculture Society, New Orleans, LA.
- Villalon B\*\*, Martinez MJ\*, Palmer TA, **Beseres Pollack J.** 2018. Oyster reef restoration effects on estuarine productivity in St. Charles Bay, Texas. Benthic Ecology Meeting, Corpus Christi, TX.
- Chapa A\*\*, Martinez MJ\*, Palmer TA, **Beseres Pollack, J.** 2018. Oyster reef restoration effects on estuarine macrobenthos in St. Charles Bay, Texas. Benthic Ecology Meeting, Corpus Christi, TX.
- Beseres Pollack, J.** 2018. Lessons learned from a decade of oyster reef restoration in the Gulf of Mexico. Benthic Ecology Meeting, Corpus Christi, TX.
- Margo A\*, Palmer TA, **Beseres Pollack J.** 2018. A Tidal Index of Biotic Integrity for the Texas Coast. Benthic Ecology Meeting, Corpus Christi, TX.
- Zimmermann D\*, Withers K, **Beseres Pollack J.** 2018. Effects of extreme freshwater events and *Perkinsus marinus* on *Crassostrea virginica* stress response. Benthic Ecology Meeting, Corpus Christi, TX.
- Williams A\*, Palmer TA, **Beseres Pollack J.** 2018. Estimating enhancement of faunal production resulting from oyster reef restoration. Benthic Ecology Meeting, Corpus Christi, TX.
- Breaux N, Palmer TA, Lebreton B, **Beseres Pollack J.** 2018. Serpulid Reef Communities as Critical Habitat for Invertebrate Prey Resources. Benthic Ecology Meeting, Corpus Christi, TX.
- Martinez MJ\*, Palmer TA, **Beseres Pollack J.** 2018. The effects of a restored oyster reef (*Crassostrea virginica*) on estuarine nekton and infauna. Benthic Ecology Meeting, Corpus Christi, TX.
- Aguilar D\*, Lebreton B, **Beseres Pollack J.** 2017. A spatial comparison of oyster isotope compositions and food resources along the Gulf coast. Coastal and Estuarine Research Federation. Providence, RI.
- Beseres Pollack, J.** 2018. Ten years of oyster reef restoration in the Gulf of Mexico. Coastal and Estuarine Research Federation. Providence, RI.
- Zimmermann D\*, Withers K, **Beseres Pollack J.** 2017. Effects of extreme freshwater events and *Perkinsus marinus* on stress response in *Crassostrea virginica*. Coastal and Estuarine Research Federation. Providence, RI.
- Martinez MJ\*, Palmer TA, **Beseres Pollack J.** 2017. Oyster Reef Restoration: Effects on Estuarine Macrobenthos. Coastal and Estuarine Research Federation. Providence, RI.
- Rezek R\*, Lebreton B, Palmer TA, Stunz G, **Beseres Pollack J.** 2017. Functional equivalence of offshore platforms and “Rigs-to-Reefs” artificial reef communities in the Gulf of Mexico. Benthic Ecology Meeting, Conway, SC.
- Aguilar D\*, DeSantiago K, Palmer, TA, **Beseres Pollack J.** 2017. Effect of restored reef age and salinity on oysters and fauna in Matagorda Bay, Texas. Benthic Ecology Meeting, Conway, SC.
- Breaux N\*, Palmer TA, Lebreton B, **Beseres Pollack J.** 2017. Evaluating Effects of Extreme Salinity Change on a Benthic Predator. Benthic Ecology Meeting, Conway, SC.
- Beseres Pollack J,** Stunz GW, Ajemian M, Wetz M, Palmer T, Mendenhall K\*, Breaux N\*. 2016. Linking benthic food resources, water quality, and Black Drum in Baffin Bay, TX. Texas Bays and Estuaries Meeting, Port Aransas, TX.

- White E\*\*, Rezek R\*, **Beseres Pollack J.** 2016. Monitoring faunal community development in restored saltmarsh (*Spartina alterniflora*) habitat. Texas Bays and Estuaries Meeting, Port Aransas, TX.
- Savage K\*, Palmer TA, Montagna PA, **Beseres Pollack J.** 2016. Relating freshwater inflow to oyster disease dynamics in Texas bays. Texas Bays and Estuaries Meeting, Port Aransas, TX.
- Rodriguez MC\*, **Beseres Pollack J,** Palmer TA, Tunnell W. 2016. Dermo disease dynamics in the eastern oyster *Crassostrea virginica* throughout the Mission-Aransas estuarine system in South Texas. Texas Bays and Estuaries Meeting, Port Aransas, TX.
- Breaux N\*, Palmer TA, Lebreton B, **Beseres Pollack J.** 2016. Evaluating Ecosystem Resilience Following a Salinity Disturbance in Baffin Bay, TX. Texas Bays and Estuaries Meeting, Port Aransas, TX.
- Rodriguez MC\*, **Beseres Pollack J,** Palmer TA, Tunnell W. 2016. Prevalence of *Perkinsus marinus* (Dermo) in the eastern oyster *Crassostrea virginica* throughout the Mission-Aransas Estuary. Benthic Ecology Meeting, Portland, ME.
- Rezek R\*, Lebreton B, **Beseres Pollack J.** 2016. Habitat function in a natural vs. restored *Spartina alterniflora* salt marsh. Benthic Ecology Meeting, Portland, ME.
- Savage K\*, Palmer TA, Montagna PA, **Beseres Pollack J.** 2016. A freshwater inflow model for the conservation of Texas oyster reefs. Benthic Ecology Meeting, Portland, ME.
- Breaux N\*, Palmer TA, Lebreton B, **Beseres Pollack J.** 2016. Ecosystem resilience following a salinity disturbance in a hypersaline estuary. Benthic Ecology Meeting, Portland, ME.
- De Santiago K\*, Palmer TA, **Beseres Pollack J.** 2016. Development of oyster reef communities following the restoration of reef habitat in Matagorda Bay, Texas. Benthic Ecology Meeting, Portland, ME.
- Ajemian, MJ, Mendenhall K\*, **Beseres Pollack J,** Wetz M, Stunz GW. 2016. Benthic Ecology Meeting, Portland, ME.
- De Santiago K\*, **Beseres Pollack J,** Palmer T. 2015. Development of oyster reef communities following the restoration of reef habitat in Matagorda Bay, Texas. Texas Bays and Estuaries Meeting. Port Aransas, TX.
- Graham P\*, **Beseres Pollack J,** Palmer T. 2015. Alternative substrates for oyster reef restoration. Texas Bays and Estuaries Meeting. Port Aransas, TX.
- Mendenhall K\*, **Beseres Pollack J,** Ajemian M, Stunz G, Palmer T. 2015. Trophic relationships between Black Drum (*P. cromis*) and benthic food resources in Baffin Bay, TX: an evaluation using multiple approaches. Texas Bays and Estuaries Meeting. Port Aransas, TX.
- White E\*\*, Rezek R\*, **Beseres Pollack J.** 2015. Monitoring community development in a restored *Spartina alterniflora* salt marsh. Texas Bays and Estuaries Meeting. Port Aransas, TX.
- Haskins T\*\*, De Santiago K\*, **Beseres Pollack J.** 2015. New reef, new refuge: A preliminary study of alternative substrate use by fishes and macroinvertebrates on Half Moon Reef, Matagorda Bay. Texas Bays and Estuaries Meeting. Port Aransas, TX.
- Blomberg B\*, **Beseres Pollack J,** Montagna P, Palmer T, Lebreton B. 2015. Evaluating functional success of a restored oyster reef through a variety of metrics. Benthic Ecology Meeting. Quebec, Canada.
- Rezek R\*, **Beseres Pollack J,** Lebreton B. 2015. Monitoring Functional Recovery of a Restored Oyster Reef: a population ecology and food web approach. Benthic Ecology Meeting. Quebec, Canada.
- Graham P\*, **Beseres Pollack J,** Palmer T. 2015. Assessing the habitat value of alternative substrates for oyster reef restoration. Benthic Ecology Meeting. Quebec, Canada.
- Mendenhall K\*, **Beseres Pollack J,** Ajemian M, Stunz G, Palmer T. 2015. Evaluating trophic relationships between Black Drum populations and benthic resources in Baffin Bay, TX. Benthic Ecology Meeting. Quebec, Canada.

- Rezek R\*, **Beseres Pollack J**, Lebreton B 2014. Incorporating trophic analysis into habitat assessment of a restored oyster reef. International Conference for Shellfish Restoration, Charleston, SC.
- De Santiago K\*, **Beseres Pollack J**, Palmer T. 2014. Enhancement of fish and macroinvertebrate production resulting from the restoration of oyster reef habitat in Matagorda Bay, Texas. Gulf and Estuarine Research Federation Conference, Port Aransas, TX.
- Graham P\*, **Beseres Pollack J**, Palmer T. 2014. Assessing the habitat value of alternative substrates for oyster reef restoration. Gulf and Estuarine Research Federation Conference, Port Aransas, TX.
- Mendenhall K\*, **Beseres Pollack J**, Ajemian M, Stunz G, Palmer T. 2014. Characterizing the benthic food resources and habitat utilization of black drum in Baffin Bay, TX. Texas Chapter of the American Fisheries Society. Tyler, TX.
- Blomberg B\*, **Beseres Pollack J**, Montagna P. 2014. Comparative analysis of trends in oyster reef restoration effort and funding in Atlantic and Gulf of Mexico ecoregions of the U.S. Texas Bays and Estuaries Meeting, Port Aransas, TX.
- Blomberg BN\*, Montagna PA, Yoskowitz D, **Beseres Pollack J**. 2014. Emergy analysis of nutrient regulating ecosystem services provided by oyster reefs. Emergy Research Conference, Gainesville, FL.
- Nevins JA\*, **Beseres Pollack J**, Stunz GW. 2013. Characterizing the Pristine Oyster Reef Community of Sabine Lake Estuary Relative to Surrounding Marsh Edge and Non-Vegetated Bottom Habitats. Coastal and Estuarine Research Federation Conference, San Diego, CA.
- De Santiago K\*\*, **Beseres Pollack J**, Palmer TA, Wetz M. 2013. Response of macrobenthic communities to varying land uses in Oso Bay, Corpus Christi, Texas. Coastal and Estuarine Research Federation Conference, San Diego, CA.
- Beseres Pollack J**, Froeschke J. 2013. Influence of environmental variables on Eastern oyster populations. Coastal and Estuarine Research Federation Conference, San Diego, CA.
- Beseres Pollack J**, Cleveland A\*\*, Palmer TA, Reisinger AS, Montagna PA. 2013. A Restoration Suitability Index model for the eastern oyster (*Crassostrea virginica*). Benthic Ecology Meeting, Savannah, GA.
- Blomberg BN\*, **Beseres Pollack J**, Montagna PA. 2013. Restoration of oyster reef habitat in South Texas: year one. Benthic Ecology Meeting, Savannah, GA.
- George LM\*, **Beseres Pollack J**, Smee DL, Montagna PA. 2013. Comparative Habitat Functions of Alternative Substrates Used for Oyster Reef Restoration in St. Charles Bay, Texas. Benthic Ecology Meeting, Savannah, GA.
- Nevins JA\*, **Beseres Pollack J**, Stunz GW. 2013. Characterizing the Pristine Oyster Reef Community of Sabine Lake Estuary Relative to Surrounding Marsh Edge and Non-Vegetated Bottom Habitats. Benthic Ecology Meeting, Savannah, GA.
- Sokoly D\*\*, **Beseres Pollack J**, Wetz M. 2013. Relationships between land use, water quality and benthic community structure and abundance in Oso Bay (Corpus Christi, Texas). Benthic Ecology Meeting, Savannah, GA.
- Beseres Pollack J**, Ray SM, Lebreton B, Blomberg B\*, Rikard S. 2012. Patchiness of Dermo (*Perkinsus marinus*) disease foci in the Aransas-Copano, Texas Estuarine System. National Shellfisheries Association. Seattle, WA.
- Ray SM, **Beseres Pollack J**, Culbertson J, Kalke R. 2012. Texas' 2011 bumper oyster set jeopardized by prolonged drought. National Shellfisheries Association. Seattle, WA.
- Lingenfelter BA\*, Crockett J, Moeckel J\*, Lawrence AL, Patnaik S, **Beseres Pollack J**. 2012. Shallow water super-intensive stacked raceways for indoor production of *Litopenaeus vannamei*. Aquaculture America. Las Vegas, NV.

- Lingenfelter BA\*, Crockett J, Moeckel J\*, Kramer K, Steimle E, Flanery W, Lawrence AL, **Beseres Pollack J**, Patnaik S. 2012. Larcos counter vs. traditional methods for determining survival in stacked raceways for indoor shrimp production. Aquaculture America. Las Vegas, NV.
- Moeckel J\*, Lingenfelter BA\*, Crockett J, Lawrence AL, Patnaik S, **Beseres Pollack J**. 2012. Dietary protein requirement for juvenile shrimp production from 10 day-old PL in biofloc vs. no biofloc systems. Aquaculture America. Las Vegas, NV.
- Moeckel J\*, Lingenfelter BA\*, Crockett J, Lawrence AL, Patnaik S, **Beseres Pollack J**. 2012. Production optimization for juvenile *Litopenaeus vannamei* in shallow water systems using zero water exchange. Aquaculture America. Las Vegas, NV.
- Rodriguez MC\*\*, Blomberg BN\*, Beseres Pollack J. 2012. A preliminary analysis of oyster settlement on a restored oyster reef. Texas Bays and Estuaries. Port Aransas, TX.
- Beseres Pollack J**, Lebreton B, Blomberg B\*, Montagna P. 2012. Do benthic microalgae have a role as a food resource for oysters in a Texas estuary? Consequences for oyster reef restoration. Benthic Ecology Meeting. Norfolk, VA.
- Blomberg B\*, Francis J, Hutchison L, **Beseres Pollack J**, Montagna P, Yoskowitz D. 2012. A conceptual framework for linking ecosystem services to an oyster reef emergy model. Benthic Ecology Meeting. Norfolk, VA.
- George LM\*, Blomberg B\*, Nevins J\*, **Beseres Pollack, J**. 2012. Relative habitat value of alternative substrates for oyster reef restoration in St. Charles Bay, Texas. Benthic Ecology Meeting. Norfolk, VA.
- Nevins J\*, Robillard Megan, Williams J, Stunz G, **Beseres Pollack, J**. 2012. Characterizing the oyster reef community of Sabine Lake: a before-after-control-impact study. Benthic Ecology Meeting. Norfolk, VA.
- Mattson RA, Montagna P, Palmer TA, **Beseres Pollack J**. 2012. Responses of estuarine benthic macroinvertebrate communities to changing river flows in the St. Johns River Estuary, FL, USA. INTECOL International Wetlands Conference. Orlando, FL.
- Beseres Pollack, J**, Cleveland, A\*\*, and Montagna, PA. 2011. Using spatial analysis to identify and prioritize locations for oyster reef restoration in Texas. Texas Bays and Estuaries. Port Aransas, TX.
- Beseres Pollack, J**, Cleveland, A\*\*, and Montagna, PA. 2011. Identifying suitable locations for oyster reef restoration in Texas. Benthic Ecology Meeting. Mobile, AL.
- Beseres Pollack J**, Froeschke J. 2010. Influence of environmental and climatic variables on eastern oyster abundance and *Perkinsus marinus* (Dermo) disease. Coastal and Estuarine Research Federation. Portland, OR.
- Beseres Pollack, J**, Yoskowitz, D, Montagna, PA, Stunz, GW. 2010. Ecosystem services of oyster reefs. Restore America's Estuaries. Galveston, TX.
- Fisher, M., Kim, H-C, and **Beseres Pollack, J**. 2009. Effects of climatic variability and commercial fishing on oyster populations in a south Texas estuary. National Shellfisheries Association. Savannah, GA.
- Beseres Pollack, J**, and Montagna, PA. 2009. Variability in salinity and temperature drive benthic community structure in the Lavaca-Colorado Estuary, Texas, USA. Coastal and Estuarine Research Federation. Portland, OR.
- Kim, H-C, **Beseres Pollack, J**, and Montagna, PA. 2009. Parameterization of oyster filtration rates as a function of environmental stressors in the Mission Aransas Estuary, Texas. Benthic Ecology Meeting. Corpus Christi, TX.

- Morgan, EK\*\*, **Beseres Pollack, J**, and Montagna, PA. 2008. Relationship between sex ratio and shell length of oysters (*Crassostrea virginica*) in Texas bays. Texas Academy of Sciences. Corpus Christi, TX.
- Montagna, PA and **Beseres Pollack, J**. 2008. Development of the freshwater inflow biotic index (FIBI). Benthic Ecology Meeting. Providence, RI.
- Beseres Pollack, J**, Ray, S and Montagna, PA. 2008. Unexpected sex ratios in *C. virginica* populations in Texas bays. National Shellfisheries Association. Providence, RI.
- Beseres Pollack, J** and Montagna, PA. 2007. Using oysters as bioindicators of freshwater inflow effects. Estuarine Research Federation. Providence, RI,
- Beseres, JJ**, Buzzelli, CP, and Feller, RJ. 2007. Modeling white shrimp consumption of macrobenthos. Benthic Ecology Meeting. Atlanta, GA.
- Beseres, JJ**, and Feller, RJ. 2006. Predation by juvenile white shrimp: using a lab-derived functional response relationship to estimate impacts on natural macrobenthic communities. Benthic Ecology Meeting, Quebec, Canada.
- Beseres JJ**, and Feller RJ. 2005. Does shrimp predation affect spatial distribution of macrobenthos? Estuarine Research Federation. Norfolk, VA.
- Beseres JJ**, and Feller RJ. 2005. Top-down control of benthic macrofauna in subtidal creek sediments. Benthic Ecology Meeting. Williamsburg, VA.
- Beseres JJ**, and Feller RJ. 2005. Impact of juvenile white shrimp on benthic macrofaunal abundances: reduction by predation, disturbance or emigration? Southeastern Estuarine Research Society. Charleston, SC.
- Beseres JJ**, and Feller RJ. 2004. Potential impacts on subtidal macrobenthos by juvenile white shrimp, *Litopenaeus setiferus*. American Society of Limnology and Oceanography. Savannah, GA.
- Beseres JJ**, and Feller RJ. 2004. Impact of juvenile white shrimp, *Litopenaeus setiferus*, predation on macrobenthos in subtidal estuarine creeks. Southeastern Estuarine Research Society. Fort Pierce, FL.
- Beseres JJ**, and Feller RJ. 2004. Juvenile white shrimp, *Litopenaeus setiferus*, potential reduction of macrobenthos abundance in southeastern U.S. salt marshes. Benthic Ecology Meeting. Mobile, AL.
- Beseres JJ**, and Feller RJ. 2003. Regulation of macrobenthos by juvenile white shrimp, *Litopenaeus setiferus*, in Southeastern U.S. salt marshes. National Estuarine Research Reserve System Annual Meeting. Charleston, SC.
- Beseres JJ**, and Feller RJ. 2002. Pacific white shrimp (*Litopenaeus vannamei*) gut passage time as a function of feed quality: comparing field versus laboratory. Southeastern Estuarine Research Society. Savannah, GA.
- Beseres JJ**, and Feller RJ. 2002. Gut passage times in penaeid shrimp: differences between field and laboratory measurements and relevance to aquaculture. Benthic Ecology Meeting. Orlando FL.

#### **Thesis and Dissertation:**

- |           |   |
|-----------|---|
| 2002-2006 | Ph.D. Dissertation: The impact of predation by juvenile white shrimp, <i>Litopenaeus setiferus</i> , on benthic macrofaunal abundances in subtidal creeks deduced from field, laboratory and modeling studies |
| 2000-2002 | M.S. Thesis: Field and laboratory gut passage times of penaeid shrimp ( <i>Litopenaeus setiferus</i> , <i>L. vannamei</i> and <i>Farfantepenaeus aztecus</i> ) using experimental aquaculture feeds           |

**Collaborators (past 48 months)**

Acton, Leslie (U. Southern Mississippi); Bright, Candace (East Tennessee State U.); Carollo, Cristina (Texas A&M U. Corpus Christi); Conkle, Jeremy (Texas A&M U. Corpus Christi); Fox, Joe (Texas A&M U. Corpus Christi); Froeschke, Bridgette (U. South Florida); Froeschke, John (Gulf Fisheries Management Council); Gibeaut, Jim (Texas A&M U. Corpus Christi); Grabowski, Jon (Northeastern U.); Hofmann, Eileen (Old Dominion U.); Kelly, Morgan (Louisiana State U.); Kim, Hae-Cheol (NOAA); Klinck, John (Old Dominion U.); La Peyre, Jerome (Louisiana State U.); La Peyre, Megan (Louisiana State U.); Lebreton, Benoit (U. La Rochelle, France); McCollough, Cherie (Texas A&M U. Corpus Christi); McLaughlin, Richard (Texas A&M U. Corpus Christi); Montagna, Paul (Texas A&M U. Corpus Christi); Nelson, James (U. Louisiana-Lafayette); Powell, Eric (U. Southern Mississippi); Ramenzoni, Victoria (Rutgers U.); Richard, Pierre (U. La Rochelle, France); Scarpa, John (Texas A&M U. Corpus Christi); Shamberger, Kathryn (Texas A&M U.); Smee, Lee (U. South Alabama); Stunz, Greg (Texas A&M U. Corpus Christi); Wetz, Michael (Texas A&M U. Corpus Christi); Xu, Wei (Texas A&M U. Corpus Christi); Yoskowitz, David (Texas A&M U. Corpus Christi)

**Advisors:**

Montagna, Paul (Postdoctoral advisor, Harte Research Institute, Texas A&M U. Corpus Christi)  
Feller, Robert (M.S. and Ph.D. advisor, University of South Carolina)

**Journal and grant reviewer:**

*Aquaculture Nutrition*  
*Aquatic Biology*  
*Aquaculture Environment Interactions*  
*Atkins Engineering, North America (technical document review)*  
*Biogeochemistry*  
*Ecological Applications*  
*Ecological Engineering*  
*Environmental Management*  
*Estuaries and Coasts*  
*Estuarine, Coastal and Shelf Science*  
*Fishery Bulletin*  
*Hydrobiologia*  
*Journal of Shellfish Research*  
*Marine Biology*  
*Marine Ecology Progress Series*  
*Marine Environmental Research*  
*Maryland Sea Grant*  
*National Estuarine Research Reserve System*  
*North Carolina Sea Grant*  
*NSF Ocean Acidification*  
*PLOS ONE*  
*Wetlands Ecology and Management*

## Teaching Experience

### Graduate Courses:

Marine Restoration Ecology - Texas A&M University-Corpus Christi  
Mariculture - Texas A&M University-Corpus Christi  
Marine Ecology - Texas A&M University-Corpus Christi  
Marine Biology Seminar - Texas A&M University-Corpus Christi  
Earth Systems Science - Coastal Carolina University, Conway, SC

### Undergraduate Courses:

Marine Ecology - Texas A&M University-Corpus Christi

### Research-Related Courses (Graduate):

Project Research (BIOL 5940)

### Graduate Students Supervised:

#### Doctor of Philosophy:

2020-present	Alyssa Outhwaite	Ongoing
2018-present	Terry Palmer	Admitted to candidacy summer 2019
2015-present	Emma Clarkson	Admitted to candidacy fall 2017
2012-2017	Ryan Rezek	Graduated fall 2017; Dissertation title: "Ecological structure and function of restored habitats across a range of coastal environments"
2009-2015	Brittany Blomberg (co-supervise w/ P. Montagna)	Graduated fall 2015; Dissertation title: "Evaluating success of oyster reef restoration"

#### Master of Science:

2020-present	Monisha Sugla	Ongoing
2020-present	Alexis Neffinger	Ongoing
2019-present	Devin Comba	Ongoing
2017-2020	Abe Margo	Graduated spring 2020
2017-2019	Meghan Martinez	Graduated fall 2019
2017-2019	Abby Williams	Graduated spring 2019
2016-2018	Danielle Zimmermann	Graduated summer 2018
2016-2017	Danielle Aguilar	Graduated fall 2017
2015-2017	Natasha Johnson Breaux	Graduated summer 2017
2015-2017	Kelley Savage	Graduated spring 2017
2014-2016	Maria Rodriguez	Graduated spring 2016
2014-2016	Kevin De Santiago	Graduated spring 2016
2013-2015	Kathryn Mendenhall	Graduated fall 2015
2013-2015	Patrick Graham	Graduated fall 2015
2011-2013	Lindsey George	Graduated summer 2013
2011-2013	Jaimie Nevins	Graduated summer 2013

**Mentoring Programs:**

- 2017-present NOAA Center for Coastal and Marine Ecosystems (CCME)
- 2011-present Louis Stokes Alliance for Minority Participation (LSAMP)
- 2012-2015 STEM Outreach, Access, and Retention (SOAR) Program
- 2011-2015 Texas A&M University-Corpus Christi ELITE Graduate Program
- 2011-2013 National Science Foundation Summer Undergraduate Research Focus (SURF)
- 2009-2011 McNair Scholars Program
- 2003 South Carolina Teacher Quality Collaborative

**Undergraduate Research Project Mentor (Independent Studies):**

- 2019-present Abbey Schulz – Differences in intertidal versus subtidal reef fauna
- 2019 Auria Avalos – Assessment of Serpulid worm reefs in Baffin Bay
- 2018-2019 Desiree Corbiere – Effects of tidal stream health on nekton size
- 2017-2019 Brianna Villalon - Oyster reef restoration effects on estuarine productivity in St. Charles Bay, Texas
- 2019 Jeremy McCollough – Benthic community composition in tidal streams
- 2017-2018 Adriana Chapa - Oyster reef restoration effects on estuarine macrobenthos in St. Charles Bay, Texas
- 2014-2016 Eric White – Community development in a restored *Spartina alterniflora* marsh
- 2015 Taylor Haskins – Faunal community dynamics on Half Moon Reef
- 2013 Kevin De Santiago – Comparing macrobenthic communities along a water quality and land-use gradient
- 2013-2014 Paige Uehling (Bucknell University) – Measuring toxicity of oyster tissues and sediments in Texas estuaries
- 2012-2013 Diana Sokoly – Comparing macrobenthic communities along a water quality and land-use gradient
- 2012-2013 Erika Diaz - Oyster reef community development on a small educational reef
- 2011-2013 Maria Rodriguez - Preliminary analysis of settlement on a restored oyster reef
- 2012 Aaron Cohen - Habitat suitability of alternative reef substrates for fishes and macroinvertebrates
- 2011 James Muela - Evaluating oyster reef protection policies in Texas and Louisiana
- 2009 Elani Morgan - Relationship between sex ratio and shell length of oysters (*Crassostrea virginica*) in Texas bays

**Teaching Assistantships:**

- 2000-2003 Processes in the Marine Environment - University of South Carolina
- 2000-2003 Oceans and Man - University of South Carolina

**University Service:**

- 2019-present Marine Biology IDP Executive Committee Member
- 2017-present Intercollegiate Athletic Advisory Committee, TAMU-CC
- 2015-present Marine Science Graduate Student Organization Faculty Advisor
- 2011-present TAMUCC Center for Coastal Studies Scholarship Committee Member
- 2019-2020 HRI Executive Director Search Committee



2019-2020 HRI Biodiversity and Conservation Chair Search Committee  
2016-2019 TAMUCC Third Coast Science for You Faculty Advisor  
2019 Life Science Department Chair Search Committee  
2018-2019 Chancellor's Research Initiative Faculty Search Committee  
2018-2019 Marine Biology Faculty Search Committee  
2017-2019 Marine Biology Graduate Program Coordinator  
2017 TAMU-CC President Search Committee  
2016-2017 College of Science & Engineering Research Enhancement Committee  
2016 Marine Biology Graduate Program, Curriculum Committee, TAMU-CC  
2016 College of Science and Engineering Operations Supervisor Search Committee  
2016 Invited speaker, LSAMP Student Research Symposium, TAMU-CC  
2015 Judge, Annual TAMUS Pathways Student Research Symposium  
2015 Chair, Marine Fisheries Early Life History Faculty Search Committee  
2015 College of Science and Engineering Grants Coordinator Search Committee  
2015 College of Science and Engineering Business Coordinator Search Committee  
2014 Judge, Graduate Scholarly Works Symposium, TAMU-CC  
2014 Representative, Fisheries and Mariculture program, Graduate Studies Open House, TAMU-CC  
2013-2014 Marine Fisheries Science Faculty Search Committee- TAMU-CC  
2013-2014 Fisheries and Mariculture Program website development - TAMU-CC  
2013 Representative, Fisheries and Mariculture program, Society for the Advancement of Chicanos and Native Americans in Science Meeting  
2013 Representative, Fisheries and Mariculture program, Graduate Studies Open House, TAMU-CC  
2012-2013 College of Science and Engineering Awards Committee – TAMU-CC  
2011-2013 Student Advisor, Louis Stokes Alliance for Minority Participation  
2012 Chair, Fisheries Biodiversity Faculty Search Committee – TAMU-CC  
2012 Invited Speaker – TAMU-CC Employee Development Day  
2012 Representative, Fisheries and Mariculture program, Graduate Studies Open House, TAMU-CC  
2012 Representative, Fisheries and Mariculture program, World Aquaculture Society Meeting  
2011-2014 Department of Life Sciences - Graduate Program Committee  
2011-2013 College of Science & Engineering Distinguished Speaker Series, TAMU-CC  
2011-2015 Coordinator, Graduate Fisheries and Mariculture Program and Peace Corps Master's International Program  
2011-2014 Life Sciences Department, FAMA/MARB, Library Liaison  
2011 Representative, Fisheries and Mariculture program, Society for the Advancement of Chicanos and Native Americans in Science Meeting  
2011 Representative, Fisheries and Mariculture program, Graduate Studies Open House, TAMU-CC  
2011 Coral Reef Ecologist Search Committee – TAMU-CC  
2011 Representative, Fisheries and Mariculture program, Aquaculture America Meeting

- 2011 Judge, Sigma Xi Undergraduate Research Symposium, TAMU-CC
- 2011 Graduate Studies Open House – TAMU-CC
- 2011 Representative, Fisheries and Mariculture program, Island Days, TAMU-CC
- 2009 Invited Speaker - McNair Scholar Program
- 2008 Invited Speaker – TAMU-CC Employee Development Day

**Professional/Community Service:**

- 2020-present Corpus Christi Independent School District Advisory Team Member
- 2020-present Coastal & Estuarine Research Federation Broadening Participation Council
- 2019-present Coastal & Estuarine Research Federation Governing Board Member
- 2019-present Coastal and Estuarine Science News (CESN) Board Member
- 2019-present Chief Editor for Environmental Science, *Experimental Results* journal
- 2019 Texas Oyster Task Force Appointee, Representative Todd Hunter
- 2018 NOAA Coastal Hypoxia Program Review Panel
- 2017-2019 Scientific Program Committee Co-Chair, Coastal & Estuarine Research Federation Meeting, Mobile, AB
- 2017-2018 Co-coordinator, Benthic Ecology Meeting, Corpus Christi, TX
- 2016 Technical Advisory Committee, Texas Coastal Resiliency Master Plan, Texas General Land Office
- 2016 Co-session convener, Restore America’s Estuaries. “Understanding eastern oyster reef dynamics for improved restoration and management” (With M. La Peyre)
- 2016 Scientist, UTMSI Summer Science Program, oyster ecology for 3<sup>rd</sup> and 4<sup>th</sup> graders
- 2016 Co-coordinator, community-based oyster reef restoration events, Goose Island State Park
- 2011-present Student mentor, Foy H. Moody High School
- 2011-present Coastal Bend Bays and Estuaries Habitat and Living Resource Advisory Team
- 2011-2018 City of Corpus Christi Watershore and Beach Advisory Committee
- 2011-present Invited speaker, Windsor Park Elementary School
- 2013-2018 Member, Board of Trustees, Montessori School of Corpus Christi
- 2014-2018 Volunteer Science Reviewer, Gulf Coast Ecosystem Restoration Council (RESTORE)
- 2015 Co-session convener, Coastal and Estuarine Research Federation. “Evaluating restoration success: ecology, economy, and society” (with M. La Peyre, J. Grabowski, D. Yoskowitz)
- 2015-present Science Instructor, UTMSI Summer Science Program
- 2015 Guest lecturer, Semester by the Sea, University of Texas Marine Science Institute
- 2012-2015 Trustee, Coastal Bend Bays Foundation
- 2014 Invited Speaker, Young Business Professionals of the Coastal Bend Ideas Week

- 2014 Co-coordinator, community-based oyster reef restoration events, Goose Island State Park
- 2014 Scientist, Teachers on the Estuary summer program, University of Texas Marine Science Institute and Mission Aransas National Estuarine Research Reserve
- 2013 Judge, Student Presentations, Benthic Ecology Meeting, Savannah GA
- 2013 Invited Speaker, City of Corpus Christi Trash Summit. April 4, 2013.
- 2011 Session Co-Chair (w/ Paul Montagna, Denise Sanger – South Carolina Sea Grant, and Erik Smith - University of South Carolina), Coastal & Estuarine Research Federation Meeting, Daytona Beach, FL
- 2011 Judge, Student Presentations, Coastal & Estuarine Research Federation Meeting, Daytona Beach, FL
- 2010-present Co-coordinator, community-based oyster reef restoration events, Goose Island State Park
- 2009 Co-coordinator, Benthic Ecology Meeting, Corpus Christi, TX
- 2008 Science Fair Judge, Coastal Bend Science Fair, Corpus Christi, TX
- 2005-2006 Official, National Ocean Science Bowl, Columbia, SC
- 2003 Science Consultant, South Carolina Teacher Quality Collaborative
- 2000-2003 Environmental Workshop Instructor, Leadership South Carolina

**Awards:**

- 2019 Corpus Christi Independent School District iAchieve Partners in Education Service Learning for Achievement Award
- 2017 Conservation Environmental Stewardship Award, Coastal Bend Bays Foundation
- 2016 Outstanding Fisheries Worker Award, American Fisheries Society, Texas Chapter
- 2015 Outstanding Doctoral Mentor Nominee, College of Science and Engineering, TAMU-CC
- 2015 Finalist, Texas Environmental Excellence Award, Texas Commission on Environmental Quality
- 2014 Featured faculty member for “Why I Teach” Series, TAMU-CC
- 2014 Finalist, Texas Environmental Excellence Award, Texas Commission on Environmental Quality
- 2012 Coastal Conservation Association Texas, Private/Public Partnership Conservation Award
- 2012 South Texas Alliance for Recycling, “Closing the Loop” Award
- 2012 Corpus Christi Independent School District iAchieve Partners in Education Service Learning for Achievement Award
- 2012 Outstanding Islander, Texas A&M University-Corpus Christi
- 2006 Best Marine Science Paper, Graduate Association of Biological Sciences Retreat
- 2005 Estuarine Research Federation, Top-50 Student Presentation
- 2004 Southeastern Estuarine Research Society, Best Student Oral Presentation

- 2004 University of South Carolina Graduate Student Day, First Place Oral Presentation
- 2000-2003 University of South Carolina Dean's Scholarship
- 2002 South Carolina Wildlife Federation Scurry Scholarship
- 2002 University of South Carolina Travel Award

**Professional Organizations:**

- 2015-present Society for the Advancement of Chicanos and Native Americans in Science
- 2010-present The Oceanography Society
- 2009-present National Shellfisheries Association
- 2005-present Association for Women in Science
- 2003-present Coastal and Estuarine Research Federation

**Media coverage:**

- 2020 Kirby Tello, The Bend Magazine. "Green conversations: mothers of pearl." September 2020.
- 2020 Sara Carney, Texas Shores Magazine. "Hungry for answers: Why where black drum starving in Baffin Bay?" Spring 2020.
- 2020 Sara Carney & Kimber de Salvo, Texas Shores Magazine. "The coast is your oyster." Spring 2020.
- 2020 John Blaha, Texas Saltwater Fishing Magazine. "Are you a good steward of Texas coastal resources?" February 2020.
- 2019 Rob George, Hecho Podcast. "Jenni Pollack – Oyster maven and underwater environment expert". November 26, 2019.
- 2019 Jay Gardner, Island Moon. "On the Rocks". November 21, 2019.
- 2019 Kylie Cooper, The Bend Magazine. "Meet Dr. Jennifer Pollack". October 31, 2019.
- 2019 Lori Balster, Environmental Monitor. "Building up Oysters: Coastal Conservation and Restoration by Harte Institute Helps Support Whole Shellfish Life Cycle". June 13, 2019.
- 2019 David Brown, The Texas Standard. "Effects of ship collision and chemical spill on oysters and fish in Galveston Bay". May 15, 2019
- 2019 Priscilla Torres, KRIS-TV. "Oyster harvesting in Houston Channel impacted by recent toxic gasoline spill". May 14, 2019.
- 2019 Kate Wheeling, Pacific Standard Magazine. "Recovery and restoration efforts in the Gulf of Mexico: 10 years since the BP oil spill." March 27, 2019.
- 2019 Claudia Alarcón, Forbes Magazine. "Preserving The Future Of Gulf Oysters, One Shuck At A Time." February 20, 2019.
- 2018 Jessica Priest, Victoria Advocate. "Sink Your Shucks." April 15, 2018.
- 2018 KRIS-TV / Houston Chronicle. "Volunteers build oyster reef in South Texas following Harvey". April 10-13, 2018.
- 2018 Barbi Leo, Domingo Live, KIII-TV. "Oyster Reef Restoration in the Texas Coastal Bend". March 27, 2018

- 2016 Beatriz Alvarado, Corpus Christi Caller Times. "Oyster program celebrated." August 17, 2016
- 2016 Joe Gazin, KIII-TV. "TAMU-CC oyster recycling program hits milestone." August 16, 2016
- 2016 Lee Sausley, KRIS-TV. "Sink Your Shucks celebrates one-millionth pound of oyster shells." August 16, 2016.
- 2016 John Blaha, Texas Saltwater Fishing Magazine. "St. Charles Bay – Oyster reef creation and shoreline stabilization." July 12, 2016.
- 2016 John Blaha, Texas Saltwater Fishing Magazine. Conservation News. "CCA Texas pledges 1.5 million to habitat restoration and conservation—Oyster restoration at the grass roots level." May 1, 2016
- 2016 TAMU-CC News. "Volunteers restore oyster reef and help protect salt marsh habitat at 'Sink Your Shucks' Event. May 12, 2016.
- 2016 Danielle St. Marie, KRIS-TV. "Sink your shucks oyster reef restoration." May 7, 2016.
- 2016 Lee Sausley, KRIS-TV. "Oyster reef restoration." May 5, 2016.
- 2016 Lee Sausley, KRIS-TV. "400,000 for coastal studies". March 13, 2016.
- 2015 Miranda Leigh, KRIS-TV. "Local businesses team with TAMU-CC to rebuild reefs". April 22, 2015.
- 2015 Marsha Canright, Galveston Daily News. "Troubled times: acidity in water being blamed for poor oyster harvest in Texas this year." March 26, 2015.
- 2014 David Sikes, Corpus Christi Caller Times. "Baffin Bay focus goes from sensational to science". November 23, 2014.
- 2014 Jessica James, KRIS-TV. "Oyster reef restoration at Goose Island State Park". May 10, 2014.
- 2014 Ted Nelson, KEDT Radio. "Sink your shucks oyster reef restoration program". May 7, 2014.
- 2014 Sara Acosta, KIII-TV. "Oyster reef restoration in the Texas coastal bend". May 7, 2014.
- 2014 Jane Monreal, KIII-TV. "Volunteers needed for oyster reef restoration". May 5, 2014.
- 2014 Janine Reyes, KRIS-TV. "Study: Oysters Save \$300k in Clean Up Services". April 25, 2014.
- 2014 Jane Monreal, KIII-TV. "Oyster reef restoration in St. Charles Bay, TX". April 29, 2014
- 2014 Maureen Peck, Journal-American Water Works Association. "Researchers put historic Half Moon Reef back on the map". February 2014.
- 2013 The Nature Conservancy, "Half Moon Reef". YouTube Video.
- 2013 WOAI-AM Radio - San Antonio, TX. "Oyster reef restoration of historic Half Moon Reef". December 9, 2013.
- 2013 Danielle Nottingham, CBS. "Oyster restoration project under way off Texas coast". November 26, 2013.
- 2013 Matthew Tresaugue, Houston Chronicle. "Reef aims to restore oyster population". November 3, 2013.

- 2013 Lauren Korn, KZTV-10. "Large barge hauls oyster shells to restoration reef." September 4, 2013.
- 2013 Coastal Conservation Association of Texas, "Aransas Bay oyster reef restoration". YouTube video.
- 2013 Texas State Aquarium, Star Magazine. "Moody and King High School Students Participate in Oyster Restoration Events at Goose Island State Park". Summer 2013.
- 2013 Dave Froehlich, KRIS-TV, "Oyster reef restoration". May 3, 2013.
- 2013 KIII-TV, First Edition. "Help restore oyster reef at Goose Island State Park". April 3, 2013.
- 2013 Coastal Conservation Association, Tide Magazine. "Lap reef expansion set for Copano Bay". March/April 2013.
- 2013 Coastal Conservation Association, Currents Magazine. "CCA partners with Harte Research Institute to expand Lap Reef restoration project. February/March 2013.
- 2012 Sean Hilbe. "Texas shell recycling program success." NOAA Coastal Management News: Volume 7, Issue 2, May 2012.
- 2012 Cindie Powell. "Aw, shucks! They sink seashells by the seashore." Texas Shores Magazine.
- 2012 K-Bay 92.7 FM Radio. Interview with morning show hosts Doug and Delma about community-based oyster reef restoration events. May 14, 2012.
- 2012 Cassandra Hinojosa. "University hosts oyster shell recycling event to restore reef." TAMUCC press release. March 20, 2012.
- 2012 Mike Baird, Corpus Christi Caller Times. "Reduce, reuse, REEF-cycle". March 11, 2012.
- 2012 Lindsay Curtis. "Volunteers recycle oyster shells." KRIS-TV. March 10, 2012.
- 2012 Mike Baird. "Volunteers build first oyster bed at Goose Island State Park with recycled shells." Corpus Christi Caller-Times. March 10, 2012.
- 2012 KIII-TV, First Edition. Interview with John Thomas about oyster shell recycling and oyster reef restoration. March 7, 2012.
- 2012 Jim Lago, KKTX 1360 News Radio. "Lago in the Morning." March 9, 2012.
- 2011 The Nature Conservancy, "Mad Island Marsh Preserve". YouTube Video.
- 2011 Dave Fraser. "Restaurants Team Up with Texas A&M for Oyster Recycling." KRIS-TV, Corpus Christi, TX. October 3, 2011.
- 2011 Texas A&M University-Corpus Christi "Outstanding Islander". April, 2011.
- 2011 Lauren Hutchison & Brittany Blomberg. "Sink Your Shucks." Documentary Film. Beneath the Waves Film Festival, Mobile, AL
- 2009 Fanny S. Chirinos. "Oyster Shell Recycling Could Catch On." *Corpus Christi Caller-Times*. January 11, 2010. p. B1.
- 2009 KKTX 1360 News Radio. "Lago in the Morning." Interview with Jim Lago. November 18, 2009.