

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

Dec 2011-Jan 2012	Visiting Research Fellow, Université de La Rochelle, La Rochelle, France
Sept 2011-present	Assistant Professor, Department of Life Sciences, Texas A&M University-Corpus Christi
Jan 2011-present	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
Jan-Sept 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 Interests & Experience

- Restoration ecology
- Shellfish ecology and fisheries
- Effects of freshwater inflow on estuarine population dynamics and community structure

Research Grants: (Cumulative total - \$1,936,309)

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** - \$166,491 (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. 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** - \$124,098 (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** - \$137,980 (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** - \$161,345 (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** - \$190,000 (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** - \$139,772 (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** - \$162,455 (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. **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. **Southeastern Estuarine Research Society Crustacean Workgroup Travel Grant** - \$1,250 (1 year).
2002. Field and laboratory feeding dynamics of penaeid shrimp. **Slocum-Lunz Foundation** - \$1,450 (1 year).

Publications

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

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. *In press*.

- 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.

Abstracts, Proceedings, and Conference Publications/Presentations:

- Beseres Pollack-mentored graduate student*; undergraduate student**
- 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**, 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, *Litopenaeus setiferus*, 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 (*Litopenaeus setiferus*, *L. vannamei* and *Farfantepenaeus aztecus*) using experimental aquaculture feeds

Journal and grant reviewer:

- 2011-present North Carolina Sea Grant
- 2010-present Marine Environmental Research
- 2010-present Estuarine, Coastal and Shelf Science
- 2008-present National Estuarine Research Reserve System
- 2008-present Maryland Sea Grant
- 2007-present Marine Ecology Progress Series
- 2007-present Aquaculture Nutrition
- 2007-present Wetlands Ecology and Management

Teaching Experience

Courses:

Graduate:

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

Research-Related Courses (Graduate):

- Project Research (BIOL 5940)

Graduate Students Supervised:

Doctor of Philosophy:

2009-present Brittany Blomberg (co-supervised)

Master of Science:

2011-present Lindsey George
2011-present Jaimie Nevins
2011-present Vannesa King
2011-present Brinson Lingenfelter
2011-present Josh Moeckel

Mentoring Programs:

2011-present Texas A&M University-Corpus Christi ELITE Graduate Program
2011-present Louis Stokes Alliance for Minority Participation (LSAMP)
2011-present National Science Foundation Summer Undergraduate Research Focus (SURF)
2009-present McNair Scholars Program
2003 South Carolina Teacher Quality Collaborative

Undergraduate Research Project Mentor (Independent Studies):

2012-present Aaron Cohen
2012-present Erika Diaz
2011-present Maria Rodriguez - Preliminary analysis of settlement on a restored oyster reef
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:

2012 Invited Speaker - TAMUCC Employee Development Day
2011-present Department of Life Sciences - Graduate Program Committee
2011-present Program Coordinator for Fisheries and Mariculture Program and Peace Corps
Master's International Program
2011-present Life Sciences Department, FAMA/MARB, Library Liason
2011 Coral Reef Ecologist Search Committee - TAMUCC
2011 Graduate Studies Open House - TAMUCC
2009-present Invited Speaker - McNair Scholar Program
2008 Invited Speaker - TAMUCC Employee Development Day

Awards:

2012 Coastal Conservation Association Texas, Private/Public Partnership
Conservation Award
2012 Corpus Christi Independent School District iAchieve Partners in Education
Service Learning for Achievement Award
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

2000-2003 Presentation
 University of South Carolina Dean's Scholarship
 2002 South Carolina Wildlife Federation Scurry Scholarship
 2002 University of South Carolina Travel Award

Professional Organizations:

2010-present The Oceanography Society
 2009-present National Shellfisheries Association
 2005-present Association for Women in Science
 2003-present Coastal and Estuarine Research Federation

Professional/Community Service:

2012-present Coastal Bend Bays Foundation Trustee
 2011-present City of Corpus Christi Watershore and Beach Advisory Committee
 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

Media coverage:

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 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 KKTX 1360 News Radio. "Lago in the Morning." Interview with Jim Lago. March 9, 2012.
 2011 Dave Fraser. "Restaurants Team Up with Texas A&M for Oyster Recycling." KRISTV, 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.