

Curriculum vitae

Susan Laramore
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Education

PhD Marine and Molecular Biology, Florida Institute of Technology, Melbourne, FL, 2006
Dissertation: Genomic and Virulence Characterization of Seven Geographic Isolates of the White Spot Syndrome Virus

MS Cell and Molecular Biology, Southern Illinois University, Edwardsville, IL, 1994
Thesis: Transient Gus Expression in Zygotic Embryos of *Taxus brevifolia*

TC Secondary Science Education, Southern Illinois University, Edwardsville, IL, 1992

BA Biology, Southern Illinois University, Edwardsville, IL, 1980

AS Southwestern Illinois Community College, Belleville, IL, 1978

Employment History

- Assistant Research Professor: Florida Atlantic University, Harbor Branch Campus in Fort Pierce, FL, Aquaculture/Stock Enhancement Department: 2008-present
Current research focus includes:
 - Bivalves: disease monitoring and reproductive assessment of diploid and triploid eastern oysters (*Crassostrea virginica*), comparisons of reproductive patterns and gonadal fatty acid composition of wild and cultured sunray venus clams (*Macrocallista nimbosa*)
 - Shrimp: development of challenge models for *Penaeus vannamei*, comparison of pelleted diets to enhance growth of *P. vannamei*, determination of optimal ionic composition for low salinity shrimp culture, incorporation of the seaweed, *Ulva lactuca*, into the biofloc shrimp culture component of an integrated multi-trophic aquaculture (IMTA) systems
 - Echinoderms: determination of optimal diets for increased gonad production in sea urchins (*Lytechinus variegatus*)*Current instructional focus includes:*
 - Lead Instructor: spring (*Aquaculture and the Environment*) and Co-Instructor: spring (*Molecular and Marine Microbiology*)
 - Masters committee membership and student mentoring
- Adjunct Instructor: Indian River State College, Fort Pierce, FL: 1998-present
 - Lead Aquaculture Instructor: fall (*Introduction to Aquaculture, Molluscan Culture*), spring (*Aquatic Animal Health Management, Crustacean culture*) and summer (*Hydroponics*)
- Senior Research Associate, Harbor Branch Oceanographic Institution Inc., Aquaculture Division, Fort Pierce, FL: 2006-2007.
- Research Associate, Harbor Branch Oceanographic Institution Inc., Aquaculture Division, Fort Pierce, FL: 2001-2005
- Research Assistant II, Harbor Branch Oceanographic Institution Inc., Aquaculture Division, Fort Pierce, FL: 1998-2001
- Research Assistant I, Harbor Branch Oceanographic Institution Inc., Aquaculture Division, Fort Pierce, FL: 1997-1998
- Biology Instructor, West Washington County School District, Okawville, IL: 1994-1997
- Teaching Assistant, Southern Illinois University, Edwardsville, IL: 1992-1994

- Laboratory Technician II, Jewish Hospital, Pathology Dept., St. Louis, MO: 1989-1991

Scholarship and Research

Publications in Print: *Refereed Journal Articles*

International:

- Kumar, A., **Laramore, S.**, Prewich, A., and Sayre, R.T. 2015. Delivery of a master mix of dsRNA targeting four white spot syndrome virus (WSSV) genes provides very potent protection to shrimp against WSSV. *International Journal of Marine Science and Ocean Technology* 2 (2):5-10.
- Garr, A., Krebs, W., and **Laramore, S.E.** 2014. Potential food web impacts following the Deep Water Horizon oil spill: toxicity effects on phytoplankton and zooplankton. *Bulletin of Environmental Contamination and Toxicology* 93 (6):654-659.
- Laramore, S.E.**, Krebs, W., and Garr, A. 2014. Potential impacts of Deep Water Horizon on Gulf of Mexico oyster populations. *Journal of Shellfish Research* 33 (3):709-718.
- Dungan, C.F., McCollough, C.B., Kelly, C.J., Hill, K.M., Stokes, N.A., **Laramore, S.E.**, Scarpa, J. and Carnegie, R.B. 2012. Comparative pathology of *Crassostrea ariakensis* and *C. virginica* oysters reared in ambient waters from the Choptank River, Maryland and the Indian River Lagoon, Florida. *Diseases of Aquatic Organisms* 101:173-183.
- Kelly, C.J., **Laramore, S.E.**, Scarpa, J., and Newell, R.I.E. 2011. Seasonal comparison of physiological adaptation and growth of Suminoe (*Crassostrea ariakensis*) and eastern oysters (*Crassostrea virginica*). *Journal of Shellfish Research* 30 (3):737-749.
- Laramore, S.**, Laramore, R., Scarpa, J., and Lin J. 2009. Virulence variation of white spot syndrome virus in shrimp. *Journal of Aquatic Animal Health* 21:82-90.
- Laramore, S.** 2007. Susceptibility of the peppermint shrimp, *Lyssmata wurdemanni*, to the white spot syndrome virus. *Journal of Shellfish Research* 26 (2): 623-627.
- Montiel de Morales, M., **Laramore, S.E.**, Laramore, C.R., Morales F., and Scarpa, J. 2007. Transmission experimental del virus de la necrosis Hipodermica y Hematopoyetica infecciosa (IHHNV) en *Litopenaeus vannamei*: Influencia de la salinidad en la expresion de la Infeccion. *Ciencia* 5 (3):311-318.
- Wilson, C., Scotto, L., Scarpa, J., Volety, A., **Laramore, S.**, and Haunert, D. 2005. Survey of water quality, oyster reproduction and oyster health in the St. Lucie Estuary. *Journal of Shellfish Research* 24 (1):157-165.
- Laramore, S.**, Laramore, C.R., and Scarpa, J. 2001. Effect of low salinity on growth and survival of postlarvae and juvenile *Litopenaeus vannamei*. *Journal of the World Aquaculture Society* 32 (4):385-392.
- Luan, E.C., **Allen, S.**, and Bolyard, M.G. 1996. Transient Gus expression in zygotic embryos of *Taxus brevifolia*. *In Vitro Cellular and Developmental Biology* 32:81-85.

Publications: *Currently Under Review*

- Laramore, S.**, Lave, A., Gallagher, K., and Krebs, W. 2015. Survey of Bivalve Molluscs for *Bonamia* sp. and other parasitic pathogens in Florida East Coast Lagoons. Submitted June 2015, *Journal of Shellfish Research*, 11 pages.
- Prangell, D.I., Castro, L.F., Abdulmehdi, S. A., Browdy, C.L., Zimba, P.V., **Laramore, S.E.**, and Samocha, T.M. 2015. Some limiting factors in the super-intensive production of juvenile Pacific white shrimp, *Litopenaeus vannamei*, in no water exchange, biofloc-dominated systems. Submitted July 2015, *Journal of the World Aquaculture Society*, 9 pages.

Publications in Print: *Non-Refereed Articles*

International:

- Samocha, T., Prangnell, D., Castro, L., and **Laramore, S.** 2015. Stress-*Vibrio* dynamics during high-density zero-exchange production of white shrimp. *Global Aquaculture Advocate* 18(3): 18-20.
- Laramore, S.**, Gordon, B., Baptiste, R., Wills, P., and Hanisak, D. 2014. Utilization of *Ulva lactuca* as a supplement or partial replacement diet in *Litopenaeus vannamei* production. *Global Aquaculture Advocate* 17 (6): 44-45.
- Scarpa, J., Baker, S., Sturmer, L., **Laramore, S.**, El-Wazzan, E., Hoover, E., and Weber, K. 2009. Evaluation of triploid hard clams for Florida aquaculture. *Global Aquaculture Advocate* 12 (2): 48-50.
- Laramore, S.** 2007. Establishing a biosecure hatchery. *Hatchery International* 8 (3): 32-33.
- Laramore, S.** 2004. Biosecurity practices – effective or merely window dressing. *Global Aquaculture Advocate* 7 (5): 60-61.
- Laramore, S.** 2003. Farming marine shrimp in freshwater, Dr. Susan Laramore says check your ionic balance first. *Shrimp News International* 2003: 98-101.
- Laramore, S.**, Scarpa, J., and McGraw, W.M. 2003. Concentration de iones requerida para el cultivo de *Litopenaeus vannamei* en agua dulce. *Panorama Acuicola Magazine* 8 (2):60-63.

National:

- Garr, A. and **Laramore, S.** 2011. HBOI at FAU researchers working hard to assess vast impacts of massive Deepwater Horizon oil spill. *Fish Farming News* 18 (3): 18-20.
- Laramore, S.** 2004. Recommendations for Preparing Aquatic Animal Specimens for Disease Diagnosis. *Fish Farming News* 11 (7): 4-5.

Technical Reports/Other

- Garr, A., **Laramore, S.**, Ohs, C., and Myers, B. 2013. Aquaculture in Action: Enhancing the Teach Aquaculture curriculum for the novice teacher. FDACS #018489, 19 pp.
- Laramore, S.**, Garr, A., and Krebs, W. 2013. The Impact of crude oil and the dispersant Corexit on three key Gulf of Mexico invertebrate species. FIO Block Grants Final Report, 11 pp.
- Scarpa, J., and **Laramore, S.** 2010. Palm Beach County-ERM final report “Survey of Select Eastern Oyster (*Crassostrea virginica*) Populations in Lake Worth Lagoon, Palm Beach County, Florida” 2010 annual report. http://www.co.palm-beach.fl.us/erm/lakes/estuarine/lake-worth-lagoon/pdf/OysterPopulationsReport_2010.pdf.
- Scarpa, J., **Laramore, S.**, Newell, R.I.E., and Dungan, C. 2009. NOAA Technical Report for NA06NMF4570245. Final Report “ Growth and Reproduction of the Suminoe Oyster in a US Sub-Tropical Environment: EIS Ramifications?”
- Laramore, S.** 2006. Implementation of biosecure practices in marine recirculating hatchery systems: A necessary step in disease prevention. In: Proceedings of the 6th International Conference on Recirculating Aquaculture. Roanoke, VA, 2006., pp 97-100. Editors: Rakeshaw TT, LS Douglas, L Marsh, L. Granata, A. Corea and G.T. Flick. SeaGrant Publication YSG-06-05.

Published Abstracts

- Laramore, S.**, and Huntley, N. 2015. Effects of saltwater intrusion on native and exotic apple snails, *Pomacea paludosa* and *P. maculata*. *Journal of Shellfish Research* 34 (2): 651.

- Laramore, S.**, Cheng, S., Chu, E., and Gallagher, K. 2014. Seasonal preference of *Bonamia* spp in the Indian River Lagoon, Florida, U.S.A. *Journal of Shellfish Research* 33 (2): 626.
- Laramore, S.**, Krebs, W., Lave, A., and Miller, K. 2012. Prevalence of the haplosporidian parasite *Bonamia* in bivalves in Florida's Indian River Lagoon. Indian River Lagoon Symposium 2012, Harbor Branch Oceanographic Institute at Florida Atlantic University, Ft. Pierce, FL, 9 February 2012, Abstract Book p 15.
- Hanisak, M.D., Dalgleish, A., Dalgleish, F., Goldstein, J., Lapointe, B., **Laramore, S.**, Mazzoil, M., McCulloch, S., McCarthy, P., O'Corry-Crowe, G., Ouyang, B., Scarpa, J., Schaefer, A., Voss, J., Wills, P. and Wright, A. The Indian River Lagoon Observatory (IRLO): Biodiversity and ecosystem function of an estuary in transition. Indian River Lagoon Symposium 2012, Harbor Branch Oceanographic Institute at Florida Atlantic University, Ft. Pierce, FL, 9 February 2012, Abstract Book p 12.
- Laramore, S.**, Garr, A., and Krebs, W. 2012. Toxic effects of crude oil and the Corexit 9500 dispersant on conch (*Strombus gigas*), oyster (*Crassostrea virginica*) and shrimp (*Penaeus duorarum*) larvae. *Journal of Shellfish Research* 31 (1):309
- Laramore, S.**, Krebs, W., and Miller, K. 2012. Continual monitoring for the parasite *Bonamia* in oysters and associated bivalves in Florida's Indian River Lagoon. *Journal of Shellfish Research* 31 (1):309.
- Laramore, S.E.**, and Scarpa, J. 2010. Oyster parasites common to Lake Worth Lagoon, Florida, p. 130, In: Kane, A.S. and Poynton, S.L. (eds.) *Proceedings of the Sixth International Symposium on Aquatic Animal Health*, 5-9 September 2010, Tampa, Florida, USA. Aquatic Pathobiology Lab Press, Gainesville, Florida, USA, 219 pp.
- Laramore, S.E.**, and Lave, A.L. 2010. Potential bivalve reservoirs of *Bonamia* sp. in Florida's Indian River Lagoon, p. 130, In: Kane, A.S. and Poynton, S.L. (eds.) *Proceedings of the Sixth International Symposium on Aquatic Animal Health*, 5-9 September 2010, Tampa, Florida, USA. Aquatic Pathobiology Lab Press, Gainesville, Florida, USA, 219 pp.
- Dungan C.F., Scarpa, J., Carnegie, R.B., Kelly, C.J., McCollough, C.B., Newell, R.I.E., **Laramore, S.**, Stokes, N.A., Hill K.M., and Burrenson, E.M. 2009. Diseases affecting diploid *Crassostrea ariakensis* and *C. virginica* oysters reared in quarantined mesocosms receiving ambient waters from the Choptank River, MD or the Indian River Lagoon, FL. *Journal of Shellfish Research* 28 (3):694.
- Scarpa, J., Sturmer, L.N., **Laramore, S.E.**, El-Wazzan, E., Baker, S.M., and Adams, C.M. 2008. Growth and survival of triploid hard clams *Mercenaria mercenaria* in Florida waters. *Journal of Shellfish Research*, 27 (4): 1050.
- Kelly, C.J., Newell, R.E.I., Scarpa, J., **Laramore, S.E.**, and Carnegie, R.B. 2008. Diploid *Crassostrea virginica* and *Crassostrea ariakensis* studies in mesocosms simulating Chesapeake Bay and Florida estuaries. *Journal of Shellfish Research* 27 (4): 1020.
- Scarpa J., Sturmer, L., Baker, S., **Laramore, S.**, and El-Wazzan, E. 2005. Potential use of induced triploidy in Florida hard clam aquaculture. *Journal of Shellfish Research* 24:674.
- Bushek, D., Scarpa, J., and **Laramore, S.E.** 2002. Susceptibility of the Caribbean oyster *Crassostrea rhizophorae* to *Perkinsus marinus*. *Journal of Shellfish Research* 21:371.
- Laramore, C.R., **Allen, S.**, Hitchens, P., Romero, X., and Schuur, A. 2000. Artificial induction of active accommodation for WSSV in *Litopenaeus vannamei* with tolerine products. In: 4th Latin American Aquaculture Congress and Exhibition book of abstracts, Panama City, Panama, 2000., pp. 24-25. Editor: D. Jory.

Presentations

Oral presentations (65):

International

- Gallagher, K.A., Krebs, W.D. and **Laramore, S.E.** 2013. Histological examination of PCR positive *Bonamia spp.*, bivalves from Florida's Indian River and Lake Worth Lagoons. Aquaculture 2013, 21-25 February, Nashville, TN.
- Garr, A., **Laramore, S.E.**, and Krebs, W.D. 2013. Potential food web impacts following the Deep Water Horizon oil spill: Toxicity effects on phytoplankton and zooplankton. Aquaculture 2013, 21-25 February, Nashville, TN.
- Garr, A., **Laramore, S.E.**, Ohs, C., and Myers, B. 2013. Aquaculture in Action part I: Evaluation of the Teach Aquaculture Curriculum. Aquaculture 2013, 21-25 February, Nashville, TN.
- Krebs, W.D., Baptiste, R., and **Laramore, S.E.** 2013. The potential utilization of fish waste to facilitate and maintain carbon ratios in an indoor shrimp biofloc culture component of a land-based Integrated Multi-Trophic Aquaculture system. Aquaculture 2013, 21-25 February, Nashville, TN.
- Laramore, S.E.**, Scarpa, J., Wills, P., and McMullian, A. 2013. A fifteen year retrospective of a partnered aquaculture education program: Indian River State College and Harbor Branch Oceanographic Institute. Aquaculture 2013, 21-25 February, Nashville, TN.
- Laramore, S.E.**, Garr, A., and Krebs, W.E. 2013. Acute and sub-lethal impacts of MC252 oil and dispersant on early life stages of *Crassostrea virginica*. Aquaculture 2013, 21-25 February, Nashville, TN.
- Wills, P.S., Scarpa, J., Hanisak, D., **Laramore, S.E.**, Garr, A., Davis, M., and Beiser, G. 2013. Prototype design for a novel marine recirculating land-based Integrated Multi-Trophic Aquaculture system. Aquaculture 2013, 21-25 February, Nashville, TN.
- Scarpa, J., Wills, P.S., Hanisak, D., **Laramore, S.E.**, Garr, A., Beiser, G., and Davis, M. 2012. A land-based integrated multi-trophic aquaculture system: design and start-up. Joint meeting of Northeast Aquaculture Conference & Exposition, 33rd Milford Aquaculture Seminar, and 15th International Conference on Shellfish Restoration, 12-15 December, Groton, CT.
- Laramore, S.** 2012. Ionic balance: Basic principles and importance in shrimp culture. 3rd Feria Nacional del Camaron, 16-17 May, Pedernales, Ecuador.
- Laramore, S.** 2012. Ionic balance: Practical tips and bioremediation. 3rd Feria Nacional del Camaron. 16-17 May, Pedernales, Ecuador.
- Kumar A., **Laramore, S.**, and Sayre, R. 2012. Development of RNAi based oral therapeutic against White spot syndrome virus of shrimp. World Aquaculture Society Meeting, 1-4 May, Melbourne, Australia.
- Laramore, S.** 2012. Ionic balance control – A key to success in shrimp culture operations. La Sociedad Latinoamericana de Acuicultura (SLA), 14 April, Guayaquil, Ecuador.
- Scarpa, J., and **Laramore, S.E.** 2010. Assessment of eastern oysters, *Crassostrea virginica*, at an environmental enhancement project area in Lake Worth Lagoon, Florida. 13th International Conference on Shellfish Restoration, 17-20 November, Charleston, SC.
- Laramore, S.E.**, and Scarpa, J. 2010. Oyster parasites common to Lake Worth Lagoon, Florida. Sixth International Symposium on Aquatic Animal Health, 5-9 September, Tampa, FL.
- Laramore, S.E.**, and Lave, A.L. 2010. Potential bivalve reservoirs of *Bonamia sp.* in Florida's Indian River Lagoon. Sixth International Symposium on Aquatic Animal Health, 5-9 September, Tampa, FL.
- Laramore, S.E.**, Scarpa, J., Newell, R.I.E., Kelly, C., Dungan, C.F., McCullough, C.B., and Carnegie, R.B. 2010. Potential impact of the suminoe oyster *Crassostrea ariakensis* in a sub-tropical ecosystem. Aquaculture 2010, 1-5 March, San Diego, CA.
- Scarpa, J., and **Laramore, S.** 2010. Characterization of Eastern oyster *Crassostrea virginica* populations at three sites in Lake Worth Lagoon, FL. Aquaculture 2010, 1-5 March, San Diego, CA.
- Dungan, C.F., Carnegie, R.B., Stokes, N.A., Hill, K.M., McCollough, C.B., **Laramore, S.E.**, Scarpa, J., and Bureson, E.M. 2010. An unanticipated *Bonamia sp.* pathogen infects Suminoe oysters exposed to Atlantic waters of southern FL, USA. Aquaculture 2010, 1-5 March, San Diego, CA.
- Scarpa, J., **Laramore, S.**, Arnold, W., Parker, M., Volety, A., and Medri, A. 2008. Characterization of eastern oyster growth, reproduction and health in Lake Worth Lagoon, Florida. International

- Conference on Shellfish Restoration, 19-22 November, Charleston, SC.
- Scarpa, J., Sturmer, L.N., Nunez, J., **Laramore S.**, and Creswell, R.L. 2007. Larval and early nursery culture of the sunray venus clam *Macrocallista nimbosa*. Caribbean and Latin America Aquaculture, 6-9 November, San Juan, Puerto Rico.
- Scarpa, J., Baker, S., Sturmer, L., Adams, C., Hoover, E., **Laramore, S.**, and El-Wazzan, E. 2006. Production and evaluation of triploid hard clams for Florida aquaculture. Aqua 2006, 9-13 May, Florence, Italy.
- Scarpa, J., Riley, K., Davis, M., **Laramore, S.**, and Shawl, A. 2006. Using innovation and technology to train aquaculturists for the 21st century. Aqua 2006, 9-13 May, Florence, Italy.
- Laramore, S.**, Scarpa, J., Lin, J., and Laramore, R. 2004. Virulence determination for seven geographic strains of the White Spot Syndrome Virus. Aquaculture 2004, 2-5 March, Honolulu, HI.
- Laramore, S.**, McGraw, W., and Scarpa, J. 2002. Ionic balance research in near fresh water for shrimp culture. AquaExpo 2002, 2-4 October, Guayaquil, Ecuador.
- Laramore, S.** 2002. Pathogenicity of white spot syndrome virus to an ornamental shrimp, *Lysmata wurdemanni*. 4th International Symposium on Aquatic Animal Health, 1-5 September, New Orleans, LA.
- Scarpa, J., Bushek, D., and **Laramore, S.E.** 2002. Comparative pathogenicity of Dermo (*Perkinsus marinus*) between the Caribbean and American oyster. 4th International Symposium on Aquatic Animal Health, 1-5 September, New Orleans, LA
- Laramore, C.R., **Allen, S.**, Hitchens, P., Romero, X., and Schuur, A. 2000. Artificial induction of active accommodation for WSSV in *Litopenaeus vannamei* with tolerine products. Latin American Aquaculture 2000, 21-25 October, Panama City, Panama.

National

- Laramore, S.**, Baptiste, R., Gordon, B., Wills, P., and Hanisak, D. 2015. Dried seaweed: A partial replacement for fish meal in shrimp diets. Aquaculture America 2015, 19-22 February, New Orleans, LA.
- Laramore, S.**, Laramore, R., Baptiste, R., and Wills, P. 2015. IMTA dried biofloc as a partial protein replacement for fish meal in shrimp diets. Aquaculture America 2015, 19-22 February, New Orleans, LA.
- Prangnell, D., Castro, L., **Laramore, S.**, Turner, J., Zeigler, T., Browdy, C., Markey, T., Honious, D., Advent, B., and Samocha, T. *Vibrio* dynamics in zero-exchange biofloc-dominated production systems for the Pacific white shrimp, *Litopenaeus vannamei*. Aquaculture America 2015, 19-22 February, New Orleans, LA. **Laramore, S.**, Baptiste, R., Gordon, B., Wills, P., and Hanisak, D. 2014. Incorporation of the seaweed *Ulva lactuca* produced in a land based IMTA system as a supplement or partial replacement for pelleted diets in the production of juvenile shrimp, *Litopenaeus vannamei*. Aquaculture America 2014, 9-12, February, Seattle, WA.
- Lanza, A.R., Scarpa, J., **Laramore, S.E.**, and Julian, D. 2013. Interactions between crude oil, dispersant, and salinity affects hard clam *Mercenaria mercenaria* embryonic development and survival. 42nd Benthic Ecology Meeting, 20-23 March 2013, Savannah, GA.
- Laramore, S.E.**, Garr, A., and Krebs, W.E. 2013. Acute and sub-lethal impacts of MC252 oil and dispersant on early life stages of *Crassostrea virginica*. GOM Oil Spill and Ecosystem Science Conference, 21-23 January, New Orleans, LA.
- Garr, A., **Laramore, S.**, and Krebs, W. 2013. Potential food web impacts following the deep water horizon oil spill: Toxicity effects on phytoplankton and zooplankton. GOM Oil Spill and Ecosystem Science Conference, 21-23 January, New Orleans, LA.
- Laramore, S.**, Garr, A., and Krebs, W. 2012. Toxic effects of crude oil and the Corexit 9500 dispersant on conch (*Strombus gigas*), oyster (*Crassostrea virginica*) and shrimp (*Penaeus duorarum*) larvae. 104th National Shellfisheries Association Meeting, 25-29 March, Seattle, WA.

- Laramore, S.**, Krebs, W., and Miller, K. 2012. Continual monitoring for the parasite *Bonamia* in oysters and associated bivalves in Florida's Indian River Lagoon. 104th National Shellfisheries Association Meeting, 25-29 March, Seattle, WA.
- Scarpa, J., and **Laramore, S.E.** 2011. Comparison of eastern oysters *Crassostrea virginica* on stone rip-rap versus a natural bed in Lake Worth Lagoon, Florida. 103rd National Shellfisheries Association Meeting, 27–30 March, Baltimore, MD.
- Laramore, S.E.**, Sturmer, L.N., and Scarpa, J. 2011. Reproductive potential of hard clam (*Mercenaria mercenaria* and *M. campechiensis*) hybrids. Aquaculture America 28 February – 3 March, New Orleans, LA.
- Scarpa, J., and **Laramore, S.E.** 2011. Comparison of eastern oysters *Crassostrea virginica* on stone rip-rap versus a natural bed in Lake Worth Lagoon, Florida. Aquaculture America, 28 February – 3 March, New Orleans, LA.
- Lave, A.L., Krebs, W.D., and **Laramore, S.E.** 2011. Prevalence of *Bonamia* spp. in wild bivalve populations of Florida's Indian River and Lake Worth Lagoons. Aquaculture America, 28 February – 3 March 2011, New Orleans, LA.
- Dungan C.F., Scarpa, J., Carnegie, R.B., Kelly, C.J., McCollough, C.B., Newell, R.I.E., **Laramore, S.**, Stokes, N.A., Hill K.M., and Bureson, E.M. 2009. Diseases affecting diploid *Crassostrea ariakensis* and *C. virginica* oysters reared in quarantined mesocosms receiving ambient waters from the Choptank River, MD or the Indian River Lagoon, FL. 101st National Shellfisheries Association Meeting, 22-26 March, Savannah, GA.
- Scarpa, J., Sturmer, L.N., **Laramore, S.E.**, El-Wazzan, E., Baker, S.M., and Adams, C.M. 2008. Growth and survival of triploid hard clams *Mercenaria mercenaria* in Florida waters. 100th National Shellfisheries Association Meeting, 6-10 April, Providence, RI.
- Kelly, C.J., Newell, R.E.I., Scarpa, J., **Laramore, S.E.**, and Carnegie, R.B. 2008. Diploid *Crassostrea virginica* and *Crassostrea ariakensis* studies in mesocosms simulating Chesapeake Bay and Florida estuaries. 100th National Shellfisheries Association Meeting, 6-10 April, Providence, RI.
- Scarpa, J., Baker, S., Sturmer, L., Adams, C., Hoover, E., **Laramore, S.** and El-Wazzan, E. 2008. Evaluation of triploid hard clams *Mercenaria mercenaria* for Florida Aquaculture. Aquaculture America, 9-12 February, Orlando, FL.
- Scarpa, J., Sturmer, L.N., Nunez, J., **Laramore, S.**, and Creswell, L.R. 2008. Early culture of the sunray venus clam *Macrocallista nimbosa*. Aquaculture America, 9-12 February, Orlando, FL.
- Laramore, S.**, Scarpa, J., and Sturmer, L. 2008. Reproductive potential of triploid hard clams *Mercenaria mercenaria*. Aquaculture America, 9-12 February, Orlando, FL.
- Laramore, S.** 2008. Review of current health concerns in the American (*Homarus americanus*) and spiny (*Panulirus argus*) lobsters. Aquaculture America, 9-12 February, Orlando, FL.
- Shawl, A., Scarpa, J., **Laramore, S.**, Wills, P., and Davis, M. 2008. Aquaculture education programs at Harbor Branch Oceanographic Institution. Aquaculture America, 9-12 February, Orlando, FL.
- Scarpa, J., Baker, S., Sturmer, L., Adams, C., **Laramore, S.**, Hoover, E., and El-Wazzan, E. 2007. Production and evaluation of triploid hard clams for Florida aquaculture. Aquaculture America, 27 February-2 March, San Antonio, TX.
- Laramore, S.** 2007. Gram positive cocci infection in *P. vannamei*. Fish Diagnosticians Workshop, Texas A& M Univ. 10-11 February, College Station, TX.
- Laramore, S.** 2006. Implementation of biosecure practices in marine recirculating hatchery systems. 6th annual conference on Recirculating Aquaculture, 20-23 July, Roanoke, VA.
- Riley, K., McMullian, A., **Laramore, S.**, and Scarpa, J. 2006. Project TASK – Integrating technology into aquaculture training and education. Aquaculture America, 13-16 February, Las Vegas NV.
- Scarpa, J., McGraw, W., **Laramore, S.E.**, Van Wyk, P., Anwar, M.F., and Vaughn, D.E. 2003. Freshwater culture research of marine shrimp at HBOI: an overview. Aquaculture America, 18-21 February, Louisville, KY.
- Bushek, D., Scarpa, J., and **Laramore, S.E.** 2002. Susceptibility of the Caribbean oyster *Crassostrea rhizophorae* to *Perkinsus marinus*. 94th National Shellfisheries Association Meeting, 14-18 April,

Mystic, CT.

- Scarpa, J., **Laramore, S.E.**, and Bushek, D. 2002 Comparative resistance between Caribbean *Crassostrea rhizophorae* and American *C. virginica* oysters to Dermo disease *Perkinsus marinus*. Aquaculture America, 27-30 January, San Diego, CA.
- Allen, S.E.**, Laramore, R., Fung, J., Duerr, L., and Scarpa, J. 2000. Low salinity and environmental ionic composition effects on growth and survival of *Litopenaeus vannamei*. Aquaculture America, 2-5 February, New Orleans, LA.
- Scarpa, J., **Allen, S.E.**, and Vaughan, D.E. 1999. Freshwater culture of the marine shrimp, *Penaeus vannamei*. Aquaculture America, 27-30 January, Tampa, FL.

Regional

- Scarpa, J., and **Laramore, S.E.** 2013. Comparison of eastern oyster *Crassostrea virginica* populations on created versus natural reefs in Lake Worth Lagoon, Florida. Lake Worth Lagoon Initiative symposium, 15 May 2013, Palm Beach Atlantic University, West Palm Beach, FL.
- Gallagher, K., and **Laramore, S.** 2012. Examining *Bonamia* spp. Infectivity in PCR positive bivalve samples from the Indian River Lagoon. 26 July, FAU Summer Intern Symposium, Boca Raton, FL.
- Scarpa, J., and **Laramore, S.** 2012. Lake Worth Lagoon: Snook Islands habitat and oyster populations. Creating oyster reef habitat to enhance water quality. Biodiversity, and Shoreline Protection Workshop. Indian River Research and Education Center, 13-14 June, Ft. Pierce, FL
- Laramore, S.E.**, Scarpa, J., and Medri, A. 2011. Snook Islands Natural Area: A comparison of a created oyster reef to natural reefs in Lake Worth Lagoon. 5th Loxahatchee River Watershed Science Symposium. 29-30 March, Jupiter, FL.
- Laramore, S.**, and Scarpa J. 2006. Virulence analysis of White Spot Syndrome Virus, a penaeid shrimp pathogen. BioFlorida's 7th Annual Conference, 17-18 October, Boca Raton, FL.
- Allen, S.E.**, and Bolyard, M.G. 1994. Germination rates of immature and mature *Taxus brevifolia* embryos and transient expression in germinated embryos. 87th Illinois State Academy of Science Meeting.
- Vordtriede, S.M., Vordtriede, P., **Allen, S.E.**, Kulfiniski, F.B., and Bolyard, M.G. 1994. Allelopathy: An investigation of *Acer ginnala*. 87th Illinois State Academy of Science Meeting.
- Allen, S.E.** and Bolyard, M.G. 1993. Media effects on germination of Pacific Yew (*Taxus brevifolia*) embryos. 86th Illinois State Academy of Science Meeting.

Poster presentations (18):

International

- Kelly, C.J., Newell, R.I.E., Scarpa, J., **Laramore, S.E.**, and Carnegie, R.B. 2008. Growth rate and mortality of diploid *Crassostrea virginica* and *C. ariakensis* in mesocosms simulating Chesapeake Bay and a Florida estuary. International Conference on Shellfish Restoration, 19-22 November, Charleston, SC.
- Laramore, S.** 2004. Susceptibility of peppermint shrimp, *Lysmata wurdemanni* to White Spot Syndrome Virus. Aquaculture 2004, 2-5 March, Honolulu, HI.
- Laramore, S.**, Montiel de Morales, M., Laramore, C.R., and Scarpa, J. 2002. Putative attenuated infectious hypodermal and hematopoietic necrosis (IHHN) virus: case study with *Litopenaeus vannamei*. 2nd International Symposium on Aquatic Animal Health, 1-5 September, New Orleans, LA.
- Allen, S.**, Laramore, R., Montiel de Morales, M., and Scarpa, J. 2001. Histological examination of Pacific white shrimp *Penaeus vannamei* experimentally infected with IHHNV. Aquaculture 2001, 21-25 January, Orlando, FL.

National

- Laramore, S.,** and Huntley, N. 2015. Effects of saltwater intrusion on native and exotic apple snails, *Pomacea paludosa* and *P. maculata*. 107th National Shellfisheries Association Conference, March 22-26, Monterrey, CA.
- Laramore, S.,** Cheng, S., Chu, E., and Gallagher, K. 2014. Seasonal preference of *Bonamia* spp in the Indian River Lagoon, Florida, U.S.A. 106th National Shellfisheries Association Conference, 29 March - 2 April, Jacksonville, FL, 2014.
- Laramore, S.,** Krebs, W., and Baptiste, R. 2014. Land based IMTA shrimp biofloc component trials: Effects of density and reduced feed on *Litopenaeus vannamei* production. Aquaculture America 2014, February 9-12, Seattle, WA.
- Garr A., and **Laramore, S.** 2014. Dispersed MC252 crude oil impacts behavior and development of queen conch and pink shrimp larvae at sublethal levels. GOMARI, 26-29 January, Mobile, Alabama.
- Kelly, C.J., Newell, R.I.E., Scarpa, J., **Laramore, S.E.,** and Carnegie, R.B. 2008. Diploid *Crassostrea virginica* and *Crassostrea ariakensis* studies in mesocosms simulating Chesapeake Bay and Florida estuaries. 37th Annual Benthic Ecology Meeting, 9-12 April, Providence, RI.
- Kelly, C., Newell, R., Scarpa, J., **Laramore, S.,** Dungan, C., and Carnegie, R.B. 2007. Diploid *Crassostrea virginica* and *Crassostrea ariakensis* studies in mesocosms simulating Chesapeake Bay and Florida estuaries. Estuarine Research Federation Conference, 4-8 November, Providence, RI.
- Laramore, S.,** Laramore, R., and Scarpa, J. 2006. Virulence challenge and genomic comparison for seven isolates of the white spot syndrome virus. Aquaculture America, 13-16 February, Las Vegas, NV.
- Montiel de Morales, M., **Allen, S.E.,** Laramore, R., and Scarpa, J. 2000. Transmission of infectious hypodermal and hematopoietic necrosis (IHHN) virus from asymptomatic shrimp *Penaeus vannamei*. Aquaculture America, 2-5 February, New Orleans, LA.
- Vordtriede, S.M, Vordtriede, P., **Allen, S.E.,** Kulinski, F.B., and Bolyard, M.G. 1994. Investigations of allelochemicals in zygotic embryos of *Acer ginnala*. 1994 Congress on Cell and Tissue Culture, 4-7 June, Research Triangle Park, NC.

Regional

- Laramore, S.,** and Krebs, W. 2013. Detection of the oyster parasite *Bonamia* in bivalves in Florida's Indian River and Lake Worth Lagoons. Lake Worth Lagoon Initiative Symposium. 15 May, West Palm Beach, FL.
- Hanisak, M.D., Dalglish, A., Dalglish, F., Goldstein, J., Lapointe, B., **Laramore, S.,** Mazzoil, M., McCulloch, S., McCarthy, P., O'Corry-Crowe, G., Ouyang, B., Scarpa, J., Schaefer, A., Voss, J., Wills, P., and A. Wright. 2012. The Indian River Lagoon Observatory (IRLO): Biodiversity and ecosystem function of an estuary in transition. Indian River Lagoon Symposium, 9 February, Ft. Pierce, FL.
- Laramore, S.,** Krebs, W., Lave, A., and Miller, K. 2012. Prevalence of the haplosporidian parasite *Bonamia* in bivalves in Florida's Indian River Lagoon. Indian River Lagoon Symposium, 9 February, Ft. Pierce, FL.
- Laramore, S.,** Scarpa, J., Lin, J., and Leonard, A. 2006. Virulence challenge and genomic comparison of seven geographic isolates of the white spot syndrome virus. Marine Biotech Conference, 14-15 November, Gainesville, FL.
- Scotto L., Wilson, C., Scarpa, J., Volety, A., **Laramore, S.,** and Haunert, D. 2003. Characterization of water quality and oyster reproduction/health in the St. Lucie Estuary: a one year monitoring study. Submerged Aquatic Habitat Restoration in Estuaries: Issues, options and priorities 11-13 March, Sarasota, FL.

Invited Speaker

16-17 May 2012. 3rd Feria Nacional del Camaron. Pedernales, Ecuador.

14 April 2012. La Sociedad Latinoamericana de Acuicultura (SLA), Guayaquil, Ecuador.

1-4 October 2002. AquaExpo, Guayaquil, Ecuador.

Invited Forum Group Participant

East Coast Molluscan Health Workshop in Portland, ME 1/13-1/14/2015. *On the pathology/science working group. The goal was identify and promote strategies for a regional, science based approach to shellfish management to facilitate interstate aquaculture and fisheries commerce while minimizing health risks to cultured and wild populations.*

Workshop “Research Needs for the Sustainable management of Crustacean resources in the South Atlantic Bight” in Charleston, SC 4/9-4/10/2014. *On the shrimp resources team. This team advised the group concerning shrimp issues along the southeastern seaboard.*

Northeast FL Oyster Research Task Force 5/30/2014 in St. Augustine FL. *Participated in discussions as to oyster research needs in Northeast Florida. Provided input on health issues.*

Oil Spill Response Research & Development Forum. Hosted by the Coastal Response Research Center in Baton Rouge, LA 1/11-1/12/2012. *Forum to encourage dialogue among PIs of current research related to oil spill response and industry and government representatives to coordinate R&D activities regarding future oil spill response.*

Beyond the Horizon, Creating a Network of Special Places to Strengthen the Ecology, Economy and Culture of the GOM. Mote Marine, Harte Inst., USF, TX A&M. Hosted at Mote Marine Lab 9/2011. *Part of the economic impacts team. This team advised the group concerning gaps in knowledge and research needed to understand economic impacts.*

Coordinating R&D on Oil Spill Response in the Wake of the Deepwater Horizon. Hosted by the Coastal Response Research Center in Baton Rouge, LA 3/22-3/24/2011. *Part of the dispersants team. This team advised the CRRC about research and development needs related to dispersants in the wake of the Deepwater Horizon spill.*

JSOST National Science and Technology Council’s Joint Sub-Committee on Ocean Science and Technology, Deepwater Horizon Oil Spill Principal Investigator Conference at St. Petersburg, FL 10/5-10/6/2010. *On the oil dispersant and mitigation impacts on coastal environments team. This team advised the NSTC/JSOST in regards to funding gaps and recommendations.*

Grants

External funded

1. PI Sturmer, L., (UF) Co-PI’s: **Laramore, S., (FAU)** Adams, C., (UF) and Sims, C (UF). Application of triploidy to an emergent oyster aquaculture industry on the West coast of Florida, UF-Fed Flow Thru (NOAA Sea Grant), 9/1/2015-8/31/2017, \$58,490 (FAU total) of ~\$200,000; 4% effort annually.
2. PI Sturmer, L., (UF) Co-PIs: **Laramore, S., (FAU)** Adams, C., (UF) and Sims, C (UF). Application of triploidy to an emergent oyster aquaculture industry on the West coast of Florida, UF-Fed Flow Thru (FL Sea Grant), 2/1/2016-1/31/2017, \$58,490 (FAU total) of ~ \$200,000; 4% effort annually.
3. **PI Laramore, S.E.,** and Co-PI Wills, P. IRSC Aquaculture Degree Program. Indian River State College, 8/21/ 2015 – 8/20/2016, \$32,234; 16.6% effort.
4. **PI Laramore, S.,** and Co-PI Sturmer L. Reproductive patterns of cultured and wild SRV clams (*Macrocallista nimbosa*) in FL west coast waters, FL Aquaculture Research Council (FL ARC), 7/1/15-6/30/16. \$43,465; 16.6% effort.

5. **PI Laramore, S.** Comparative benchmarking of growth, survival and feed conversion efficiencies of *Litopenaeus vannamei* fed diets of varying nutritional composition in individual and group clear water culture systems, Private Industry (Zeigler Brothers), 1/31/15-1/31/16, \$63,624; 4% effort.
6. **PI Laramore, S.** Amendment for benchmarking of growth, survival and feed conversion efficiencies of *Litopenaeus vannamei* fed diets of varying nutritional composition in individual and group clear water culture systems, Private Industry (Zeigler Brothers), 1/31/15-1/31/16, \$16,500; 4% effort.
7. **PI Laramore, S.,** and Co-PI McCarthy, P. The development of controlled individual disease challenge systems for the evaluation of the relative susceptibility of shrimp to viral and bacterial pathogens, Private Industry (Zeigler Brothers), 1/31/15-1/31/16, \$52,767; 8.3% effort..
8. **PI Laramore, S.,** Co-PIs: McCarthy, P., and Wills, P. Experimental challenge of *Tilapia sp.* with agalactiae biotype 2, Private Industry (Veso), 3/1/2014-11/30/2014, \$45,287; 16.6% effort.
9. **PI Laramore, S.E.,** and Co-PI Wills, P. IRSC Aquaculture Degree Program. IRSC, 8/21/ 2014 – 8/20/2015, \$32,234; 16.6% effort.
10. **PI Laramore, S.** Increasing shrimp production in Florida by establishing environmental mineral ionic guidelines for low salinity shrimp operations. FL ARC, 7/1/2014-6/30/2015, \$74,724, 16.6% effort.
11. **PI Laramore, S.E.,** Co-PIs: Scarpa, J., and Wills, P. IRSC Aquaculture Degree Program. IRSC, 8/1/2013 – 7/31/ 2014, \$32,234; 12.5% effort.
12. PI Garr, A., Co-PIs: **Laramore, S.,** Ohs, C., (UF) and Myers, B. (UF). Aquaculture in Action: Enhancing the Teach Aquaculture curriculum. FL ARC. 7/1/2012-6/30/2013; 16.6% effort. \$82K.
13. **PI Laramore, S.E.,** Co-PIs: Scarpa, J., and Wills, P. IRSC Aquaculture Degree Program. IRSC, 8/1/2012 – 7/31/ 2013, \$32,234; 12.5% effort.
14. **PI Laramore, S.E.,** Co-PIs: Scarpa, J., and Wills, P. IRSC Aquaculture Degree Program. IRSC, 8/1/2011 – 7/31/ 2012, \$32,234; 12.5% effort.
15. **PI Laramore, S.,** and Co-PI Garr, A. The impact of crude oil and the dispersant Corexit on three key Gulf of Mexico invertebrate species. USF-FIO. 8/1/2010-12/30/2012,\$104K; 16.6% effort annually.
16. PI Proffitt, C.E., Co-PIs: Geiger, S., Kimbro, D., Coen, L., Tolley, G., Weinstein, J., **Laramore, S.E.** The Deepwater Horizon oil spill: Assessing impacts on a critical habitat, oyster reefs and associated species in Florida Gulf estuaries. USF-FIO. 8/1/2010-12/30/2012,\$316,936; 2% annual effort.
17. PI Wills, P., Co-PIs: Scarpa, J., and **Laramore, S.** Shrimp Grow-Out Study. Private Industry Company, 7/2011 – 4/ 2012. \$29.7K; 2% effort.
18. **PI Laramore, S.E.,** Co-PIs: Scarpa, J., and Wills, P. IRSC Aquaculture Degree Program. IRSC, 8/1/2010 – 7/31/ 2011, \$32,234; 12.5% effort.
19. PI Scarpa, J., and **Co-PI Laramore, S.E.** Assessment of F1 Hybrids Back-Crossed with *Mercenaria mercenaria* to improve hard clam crop production during summer months in Florida. Subcontract from UF as funded by USDA-CSREES. 9/2008 – 9/2011, \$40K; 8.3% effort.
20. **PI Laramore, S.** Study of immunity in shrimp following injection with dsRNA. Private company. 5/2011-7/2011. \$10,260; 16.6% effort.
21. PI Scarpa, J., and **Co-PI Laramore, S.** Oyster monitoring in Lake Worth Lagoon. Palm Beach Co. Environmental Resource Management, 3/2009-2/2010. \$72,300; 16.6% effort.
22. **PI Laramore, S.,** Co-PIs: Scarpa, J., and Wills, P. IRSC Aquaculture Degree Program. IRSC, 8/1/2009-7/31/2010. \$32,234; 12.5% effort.
23. PI Scarpa, J., and **Co-PI Laramore, S.** Oyster monitoring in Lake Worth Lagoon. Palm Beach Co. ERM, 3/2008- 2/2009. \$67,200; 16.6% effort. *See above for role as Co-PI.*
24. PI Scarpa, J., and **Co-PI Laramore, S.** Ensuring sustainability of the hard clam aquaculture industry in Florida through evaluation of stock hybridization, stocking densities and soil and

sediment quality. Subcontract from UF as funded by USDA-CREES. 1/2007-7/2009. \$40,000; 12.5% effort.

25. **PI Laramore, S.**, Co-PIs: Scarpa, J., and Wills, P. IRSC Aquaculture Degree Program. IRSC, 8/1/2008-7/31/2009. \$32,234; 12.5% effort.
26. **PI Laramore, S.** Study of immunity in shrimp following immersion in *Chlamydomonas* containing shrimp viral proteins. Private company, 11/2008-1/2009. \$17,300; 25% effort.
27. PI Garr, A., Co-PIs: Scarpa, J., Masterson, J., **Laramore, S.**, Wills, P., Hanisak, D., Davis, M., Ohs, C., (UF) and Myers, B. (UF). Teacher Aquaculture Immersion Excursion, FL ARC, 7/1/2008-6/30/2009. \$101,000; 4% effort.
28. PI Scarpa, J., Co-PIs: Newell, R.I.E., Dungan, C., and **Laramore, S.** Growth and reproduction of *Crassostrea ariakensis* in a US sub-tropical environment: EIS ramifications? NOAA Chesapeake Bay Non-Native Oyster Program. Oct. 2006-Sept. 2007. \$46,900; 16.6% effort.
29. PI Riley, K., Co-PIs: Scarpa, J., **Laramore, S.**, Davis, M., and McMullian, A. Project Task: Teaching Aquaculture skills and knowledge. USDA NIFA SERD, 9/2004-8/2006; 4% effort.

External – pending

1. **Laramore, S.**, and Sturmer, L., (UF) Culturing around *Perkinsus marinus*: Monitoring cultured Eastern oysters in Florida, FL-ARC, 7/1/2016-6/30/2017, \$49,388; 16.6% effort.

Internal funded

1. **PI Laramore, S.**, and Co-PI Riche, M. Prototype Integrated Multi-Trophic Aquaculture System for Land-Based aquaculture: Fed component – sea urchins and other echinoderms, FL State License Plate (FL SLP), 7/1/15-6/30/16, \$33,333; 4% effort.
2. **PI Laramore, S.** Prototype Integrated Multi-Trophic Aquacultures system for land-based aquaculture: Fed component - shrimp biofloc, FL SLP, 10/1/14-12/31/15, \$33,333; 8.3% effort.
3. **PI Laramore, S.**, and Co-PI Sturmer L. Reproductive patterns and nutritional status of cultured and wild SRV clams (*Macrocallista nimbosa*), FL SLP, 7/1/14-12/30/15. \$35,000; 16.6% effort. .
4. **PI Laramore, S.** An initiative to design and demonstrate a prototype integrated IMTA system for sustainable land based aquaculture: Incorporation of ex-situ biofloc and seaweed into shrimp diets, FL SLP, 6/30/13-7/1/14, \$46.8 K; 20.8% effort.
5. **PI Laramore, S.** Supplement to an initiative to design and demonstrate a prototype Integrated Multi-Trophic Aquaculture system for sustainable land-based aquaculture: Fed biofloc component. FL SLP, 7/1/2012 – 12/31/2012, \$10K; 12.5% effort. .
6. **PI Laramore, S.** An initiative to design and demonstrate a prototype Integrated Multi-Trophic Aquaculture system for sustainable land-based aquaculture: Shrimp biofloc fed component. FL SLP, 7/1/2011 – 6/30/2012, \$50K; 16.6% effort.
7. PI Scarpa, J., Co-PIs: **Laramore, S.**, and Proffitt, E. Postdoc - Oyster Restoration in SE Florida Estuaries: Use of population genetic methods to monitor effects of the *Deepwater Horizon* oil spill on an ecologically and commercially important indicator species, the Eastern oyster, along its Gulf Coast range, FAU Foundation, 8/1/2010 – 7/30/2012, \$144K; 4% effort.

Courses Taught

FAU

Molecular and Marine Microbiology, 3 cr. (2010-present)

McCarthy, lead instructor; Co-instructor (8%)

Bivalve Biology and Physiology, 2 cr. (2012)

Scarpa, lead instructor; Co-instructor (10%)
Aquaculture and the Environment, 3 cr.
Scarpa, lead instructor; Co-instructor (8 %) (2010-2014)
Laramore, lead instructor (75%) (2015-present)

IRSC

Aquatic Animal Health Management, 4 cr. (1998-present): **Developed course**
Introduction to Aquaculture, 3 cr. (2008-present)
Team taught, Lead instructor (75%)
Molluscan Culture, 4 cr. (2014-present)
Crustacean Culture, 4 cr. (2015-present)
Introduction to Hydroponics, 3 cr. (IRSC) (2014-present): **Developed course**

Thesis Advisor and Postgraduate-Scholar Sponsor

Graduate supervisor: Lucas Jennings, M.S., FAU Biology (completed August 2014). Title: Nematocyst Replacement in the Sea Anemone *Aiptasia pallida* Following Predation by *Lyssmata wurdemanni*: an Inducible Defense?

Postdoctoral Supervisor: Ms. Holly Nance, Ph.D., Clemson University (HBOI 2010-2012). Title: Oyster Restoration in SE Florida Estuaries: Use of population genetic methods to monitor effects of the *Deepwater Horizon* oil spill on an ecologically and commercially important indicator species, the Eastern oyster, along its Gulf Coast range

Graduate Student Committee Member:

Mary Crider, M.S., FAU Geosciences (completed May 2012). Title: The Social and Environmental Effects of Shrimp Mariculture: Case Study of Two Coastal Villages in Ecuador.
Lilliana Loreda, M.S. FAU Biology (2013, decided to go non-thesis route)
Pedro Lara, M.S. FAU Biology (Dec. 2015 expected). Title: A Comparison of Intertidal Oyster (*Crassostrea virginica*) Microhabitats: Are Mangroves a Refuge from *Perkinsus Marinus* (Dermo) Infections?
Rachael Plunkett (May 2016 expected). Title: Morphology, Genetics and Host Specialization of Treamode Larvae (Digenea) in the Microbiome of a Marine Sponge (*Spongia* sp.)
Christie Gonzalez (May 2016 expected). Title: Histopathologic Study of the Stomach Mucosa in Stranded Atlantic Bottlenose Dolphins of the Indian River Lagoon, Florida, 2000-2014.

Undergraduate Supervisor: Kaitlyn Gallagher, senior thesis for the integrated biology program at the Wilkes Honors College on the FAU Jupiter campus (completed May 2013). "Examining *Bonamia* spp. Infectivity in PCR positive Bivalve Samples from the Indian River Lagoon".

Advisory/Mentor (HBOI Link Summer interns):

Nicolas Brandimarte, B.A. FAU (Link Summer Intern 2015), Naomi Huntley, B.A. University of Michigan (Link Summer Intern 2014), Ericka Chu, B.A. Centenary College, New Jersey (Link Summer Intern 2013), Susan Cheng, Centenary College, New Jersey (Link summer Intern 2013), Pedro Lara, M.S. FAU (Link Summer Intern 2013), Kaitlyn Gallagher, B.A. FAU Honors College (Link Summer Intern 2012, Senior Research Thesis Advisor, Honors College), Kiersten Miller, B.A., Rollins College, Orlando, FL, (Link Summer Intern 2011), Ashley Lave, B.S., Jacksonville University (Link Summer Intern, 2010), Jennifer Reed, B.S. (Link Summer Intern, 2010)

Service and Professional Development

Institution

- Personnel Committee – 2015
- Education Committee – 2015
- Incentive Committee – 2014-2015
- Faculty search committees – fish ecologist, aquaculture nutritionist, DVM – 2014-2015
- Arts Committee – 2012-2014
- MY HBOI Committee, subcommittee on orientation for the non-research initiative of the HBOI Strategic Plan – 2012.
- Implementation Planning Committee for the research initiative of the HBOI Strategic Plan (IRLO and LB-IMTA committees) – 2011-2012.
- Lab Safety Committee – 2007-2009
- Bio Safety Committee – 2007-2009

Discipline/Professional

Agency Reviewer: Sea Grant (National & State), NOAA, SBIR, NSF, NIFA-SBIR

Journal Reviewer: Aquaculture International, Aquaculture Research, Chemosphere, Journal of World Aquaculture, Journal of Aquatic Animal Health, Journal of Heredity, Journal of Shellfish Research, Journal of Immunology, Diseases of Aquatic Organisms, Egyptian Journal of Aquatic Research

Rules and Regulations Committee Member – United States Aquaculture Society (2010-2012)

Session organizer and chair: Aquaculture America 2011, New Orleans – Shrimp Nutrition; National Shellfisheries Association meeting 2009, Savannah – Crustacean Health Session; Aquaculture America 2008, Orlando – Crustacean Health Session

Workshops organized:

Clam Industry Workshop March 10, 2015 at HBOI (32 participants)

Organized in conjunction with L. Sturmer of UF IFAS Shellfish Aquaculture Extension Program.

Moderator in am and pm sessions and presenter in pm session.

Aquaponics workshop April 3, 2014 at IRSC's main campus (25 participants)

Organized in conjunction with A. McMullian of IRSC

Hydroponics workshop November 25, 2013 at IRSC's Mueller Center (24 participants)

Organized in conjunction with A. McMullian of IRSC

Aquaculture Teacher Workshop June 2013 at HBOI (26 participants)

Organized in conjunction with A. Garr of HBOI. Workshop coordinator and lead instructor

Community/Public

- Florida Organic Aquaculture Academy Advisory Committee - 2015
- US pathology working group for the transport of shellfish in the Eastern US: Reports to the International Council for the Exploration of the Seas (ICES) working group on pathology and diseases of marine organisms 2014-present
- Guana, Tolomato, Matanzas (GTM) Water Quality Task Force and Northeast Florida Oyster Research Group - 2014-present
- IRSC Agricultural Advisory Committee Meetings -Dec. 2009-present
- Organizing committee for the USDA Alternative Agriculture planning grant hydroponics and aquaponics workshops at IRSC -2012-2014

- Various public lectures: Ocean Science Lecture Series at HBOI-FAU (2008,2010,2013), Nature Conservancy (2011), Exchange Club (2011), Florida Marine Science Educators Association (2013).
- Various school group tours and lectures: IRSC Career Days and Great Explorations (2007-2014), Marine Oceanographic Academy (2010-2015), Jupiter High School (2012-2015), Lincoln Park Academy (2012-2015), Jacksonville University (2010-2015), etc.

Professional Development

Professional Memberships

World Aquaculture Society, National Shellfisheries Association, American Fisheries Society

Professional Certification

American Fisheries Professional (2007-2012)

Awards

IRSC adjunct faculty of the year award, 2013

BioFloridas 7th Annual Conference, Boca Raton, FL, Travel Award, October, 2004

World Aquaculture Society, Honolulu, Hawaii, 1st Place Student Oral Presentation, March, 2004