

**Susan Laramore**  
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**Education**

<b>Ph.D.</b> , Marine and Molecular Biology Florida Institute of Technology, Melbourne, FL	1998-2006
<b>M.S.</b> , Cell, and Molecular Biology Southern Illinois University, Edwardsville, IL	1992-1994
<b>B.A.</b> , Biological Sciences Southern Illinois University, Edwardsville, IL	1978-1980
<b>A.S.</b> Southwestern Illinois Community College, Belleville, IL	1976-1978

**Employment History**

<b>Associate Research Professor</b> Florida Atlantic University, Harbor Branch Oceanographic Institute, Fort Pierce, FL	2016-present
<b>Assistant Research Professor</b> Florida Atlantic University, Harbor Branch Oceanographic Institute, Fort Pierce, FL	2008-2016
<b>Adjunct Instructor</b> Indian River State College, Fort Pierce, FL	1998-2023
<b>Senior Research Associate</b> Harbor Branch Oceanographic Institution Inc., Aquaculture Division, Fort Pierce, FL:	2006-2007
<b>Research Associate</b> Harbor Branch Oceanographic Institution Inc., Aquaculture Division, Fort Pierce, FL	2001-2005
<b>Research Assistant II</b> Harbor Branch Oceanographic Institution Inc., Aquaculture Division, Fort Pierce, FL	1998-2001
<b>Research Assistant I</b> Harbor Branch Oceanographic Institution Inc., Aquaculture Division, Fort Pierce, FL	1997-1998
<b>Biology Instructor</b> West Washington County School District, Okawville, IL	1994-1997
<b>Teaching Assistant</b> Southern Illinois University, Edwardsville, IL	1992-1994
<b>Laboratory Technician II-III</b> Jewish Hospital, Pathology Dept., St. Louis, MO	1989-1991
<b>Biochemist</b> Monsanto/Searle CNS Division, Chesterfield, MO	1988-1989
<b>Research Assistant</b> Washington University Medical School, St. Louis, MO	1984-1988
<b>Analyst</b> Ralston Purina Co., St. Louis, MO	1980-1982

**Refereed Publications (2015 to present, of 27):**

1. **Laramore, S.**, Albright, E., and Sinacore, C.M. 2024. The impact of diet on amphipod, *Parhyale hawaiiensis*, production. *Journal of Aquaculture and Fisheries* 7:079. Doi:10.24966/AAF-5523/100079.
2. Perri, E., Hassa, M.M., and **Laramore S.** 2023. Feasibility of microalgal concentrates for production of post set Northern Quahogs, *Mercenaria mercenaria* and Sunray venus clams, *Macrocallista nimbosa*. *Journal of Shellfish Research* 42(3): 359-370.

3. Perri, E., Sturmer, L., Wills, P.S., Baldwin, J. and **Laramore, S.** 2023. Effect of microalgal diets on sunray venus clam (*Macrocallista nimbosa*) production and fatty acid profile. *Fishes*, 8 (2) 72. <https://doi.org/10.3390/fishes8020072>
4. **Laramore, S.E.**, Wills, P.S. and Hanisak, M.D. 2022. Seasonal variation in the nutritional profile of *Ulva lactuca* produced in a land-based IMTA system. *Aquaculture International*, 30: 3067-3079. <https://link.springer.com/article/10.1007/s10499-022-00950-3>
5. Hassan, M. M., Perri, E., Parks, V. and **Laramore, S.** 2022. Growth, survival, and fatty acid profile of hard clam, *Mercenaria mercenaria*, juveniles fed live microalgae diets. *Aquaculture Fish and Fisheries*, 3 (1): 51-60. <https://doi.org/10.1002/aff2.80>
6. **Laramore, S.**, Courtemanche, C., and Huntley, N. 2022. Differential effects of increased salinity on growth and survival of a native and a nonnative apple snail species. *Journal of Molluscan Studies*, Vol 88 (1), March 2022, eyab047. <https://doi.org/10.1093/mollus/eyab047>
7. Hassan, M., Parks, V., and **Laramore, S.** 2021. Optimizing microalgae diets for hard clam, *Mercenaria mercenaria*, larvae culture, *Aquaculture Reports*, 20: 100716. <https://doi.org/10.1016/j.aqrep.2021.100716>
8. Hassan, M, Parks, V., and **Laramore, S.** 2021. Assessment of microalgae concentrate as diet for hard clam, *Mercenaria mercenaria*, larvae. *Aquaculture Nutrition*, 27 (6): 1871-1879. <https://doi.org/10.1111/anu.13324>
9. Hassan, M., Parks, V., and **Laramore, S.** 2021. Variation in filtration and ingestion rates among different microalgae species by hard clam, *Mercenaria mercenaria*, larvae and post-set juveniles. *Aquaculture Research*. Vol 53 (2) 684-688 (Feb 2022); *Published online 9/29/2021* <https://onlinelibrary.wiley.com/doi/10.1111/are.15585>
10. Boeck, H., **Laramore S.**, Portnoy D., and Scarpa, J. 2019. Survey of Texas Bay systems for the oyster parasites *Bonamia* Spp., *Haplosporidium nelsonii* and *Perkinsus marinus*. *Journal of Shellfish Research*, 38 (3) 557-564. <https://doi.org/10.2983/035.038.0306>
11. **Laramore S.**, Sturmer, L., and Sinacore, C. 2018. The sunray venus clam (*Macrocallista nimbosa* Lightfoot, 1786) exhibits continuous and asynchronous spawning behavior. *Aquaculture Reports*, 12: 49-55. <https://doi.org/10.1016/j.aqrep.2018.09.005>
12. **Laramore, S.**, Baptiste, R., Wills, P., and Hanisak, M. D. 2018. Utilization of IMTA produced *Ulva lactuca* to supplement or partially replace pelleted diets in shrimp reared as a fed component in a clear water production system. *Journal of Applied Phycology*, 30: 3603-3610. <https://link.springer.com/article/10.1007/s10811-018-1485-3>
13. **Laramore S.E.**, Krebs W., Lave A.L, and Gallagher, K. 2017. Survey of bivalve molluscs for *Bonamia* spp. and other parasitic pathogens in Florida East coast lagoons. *Journal of Shellfish Research*, 36 (2): 379-390. <https://doi.org/10.2983/035.036.0211>
14. **Laramore, S.**, Sturmer, L., Baptiste, R., Yang, H., Sinacore, C. and Urban-Gedamke, E. 2017. Fatty acid composition of adult and larval sunray venus clams *Macrocallista nimbosa*: environmental and gametogenic impacts. *Journal of Shellfish Research*, 36 (2): 403-416. <https://doi.org/10.2983/035.036.0213>
15. Prangnell, D.I. Castro, L.F. Ali, A.S., Browdy, C.L., Zimba, P.V., **Laramore, S.E.**, and Samocha, T.M. 2016. Some limiting factors in super-intensive production of juvenile Pacific white shrimp, *Litopenaeus vannamei*, in no-water exchange, biofloc dominated systems. *Journal of the World Aquaculture Society*, 47 (3):396-413. <https://doi.org/10.1111/jwas.12275>
16. **Laramore, S.**, Krebs, W., and Garr, A. 2016. Effects of exposure of pink shrimp, *Farfantepenaeus duorarum*, larvae to Macondo Canyon 252 crude oil and the Corexit dispersant. *Journal of Marine Science and Engineering* 4 (1), 24: [doi:10.3390/jmse4010024](https://doi.org/10.3390/jmse4010024).
17. 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.

## Book Chapters

1. **Laramore, S.**, Krebs, W., and Garr, A. **2017**. Effects of exposure of pink shrimp, *Farfantepenaeus duorarum*, larvae to Macondo Canyon 252 crude oil and the corexit dispersant, pp117-134. In: Marine Oil Spills Special Issue, Merv Fingas (ed), Spill Science, Canada. MDPI AG, St Alban-Anlage 66, Basel Switzerland.

## Refereed Presentations and Proceedings

### International presentations (2010 to present, of 17)

1. <sup>a</sup>Wills, P.S., J. Scarpa, D. Hanisak, **S. Laramore**, A. Garr, M. Davis, and G. Beiser. **2012**. A new design concept for a land-based integrated multi-trophic aquaculture system. Ninth International Conference in Recirculating Aquaculture, Department of Food Science and Technology, Virginia Polytechnic Institute and State College, Roanoke, VA, 24-26.
2. 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.
3. <sup>b</sup>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.
4. <sup>b</sup>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.
5. **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.
6. <sup>b</sup>**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.

### National presentations (2015 to present, of 85)

1. Anderson, N., Sturmer, L., **Laramore, S.**, Getter, B., Collins, A., Philips, E and Baker, S. 2024. Evaluating abiotic and biotic factors influencing northern quahog (hard clam) production in Florida, USA. 116<sup>th</sup> Annual National Shellfisheries Association Meeting, 17-21 March, Charlotte, NC.
2. **Laramore, S.**, Baptiste, R., **Perri, E.**, and Sturmer, L.N. 2024. Improving spawning success of the sunray venus clam, *Macrocallista nimbosa*. 116<sup>th</sup> Annual National Shellfisheries Association Meeting, 17-21 March, Charlotte, NC.
3. Poster: **Laramore, S.**, Baptiste, R., and Feola, S. 2024. Impact of temperature and fluctuating pH on production of hard clam, *Mercenaria mercenaria*, post-set in Florida. 116<sup>th</sup> Annual National Shellfisheries Association Meeting, 17-21 March, Charlotte, NC.
4. Poster: **Laramore, S.**, Mason, L., and Mustafa, A. 2024. Comparison of hemolymph collected with commercial and lab-made anticoagulant. Aquaculture America 2024, 18-21 February, San Antonio, TX.
5. Poster: **Keough, M.**, **Salis, J.**, Bradshaw, D., Baptiste, R., and **Laramore, S.** **2023**. Impact of fluctuating pH on production of hard clam *Mercenaria mercenaria* post-set in an IMTA system. 115<sup>th</sup> Annual National Shellfisheries Association Meeting, 26-30, March, Baltimore, MD.
6. **Getter, B.**, **Laramore, S.**, Sturmer, L., Anderson, N., Collins, A., Philips, E., and Baker S. **2023**. Evaluating abiotic and biotic factors influencing hard clam production in Florida. 115<sup>th</sup> Annual

- National Shellfisheries Association Meeting, 26-30, March, Baltimore, MD.
7. **Laramore, S.,** Wills, P., Nilles, Z., **Bianchine, T.,** Sinacore, C., Courtemanche, C., Snyder, S., and Browdy, C. **2023.** Impact of a symbiotic treatment on Florida pompano production and health. Aquaculture America 2023, 23-26 February, New Orleans, LA
  8. Poster: **Keough, M., Salis, J.,** Bradshaw, D., Baptiste, R., and **Laramore, S. 2023.** Impact of fluctuating pH on production of hard clam *Mercenaria mercenaria* post-set in an IMTA system. Aquaculture America 2023, 23-26 February, New Orleans, LA
  9. **Laramore, S.,** Albright, E., and Peskin, B. **2022.** Effects of culture system and diet on amphipod *Parhyale hawaiiensis* production. Aquaculture 2022 (triennial), 28 February – 4 March, San Diego, CA.
  10. **Laramore, S., Perri, E., Hassan, M.,** Sturmer, L., Wills, P., and Baldwin, J. **2022.** Effects of microalgal concentrates on the production of post-set sunray venus *Macrocallista nimbosa* and hard clams *Mercenaria mercenaria*. Aquaculture 2022 (triennial), 28 February – 4 March, San Diego, CA.
  11. **Bianchine, T.,** Snyder, S., Browdy, C., **Laramore, S.,** and Wills, P. **2021.** Effects of hard and soft pellets in conjunction with pellet size on production characteristics of Florida pompano *Trachinotus carolinus* Aquaculture America 2021, 11-14 August, San Antonio, TX.
  12. <sup>b</sup>Poster: **Perri, E., Hassan, M.M., Laramore, S.,** and Baptiste, R. **2021.** Effect of microalgae (species) on Sunray venus clam (*Macrocallista nimbosa*) and hard clam (*Mercenaria mercenaria*) post-set production. 113th Annual National Shellfisheries Association Meeting, 29 March – 2 April, online.
  13. <sup>b</sup>Hassan, M.M., Parks, V., and **Laramore, S. 2021.** Effects of microalgae diets on growth, development and survival of hard clam *Mercenaria mercenaria* larvae. 113<sup>th</sup> Annual National Shellfisheries Association Meeting, 29 March – 2 April, online.
  14. **Laramore, S.,** Wills, P., Nilles, Z., Snyder, S., Browdy, C., and Wagner, E. **2020.** Impact of probiotics and prebiotics on post-larval Florida pompano production and health. Aquaculture America 2020, 9-12 February, Honolulu, HI.
  15. **Laramore, S., Henning, T.,** Nilles, Z., Baptiste, B., and Wills, P. **2020.** Impact of diets and water source on production of the sea cucumber *Holothuria floridana*. Aquaculture America 2020, 9-12 February, Honolulu, HI.
  16. **Laramore, S., Albright, E.,** Courtemanche, C., Katz, D., and Munoz, A. **2019.** Production of the amphipod *Parhyale hawaiiensis*: effects of temperature and diet. Aquaculture 2019 (triennial), 7-11 March, New Orleans, LA
  17. Poster: **Laramore, S., Ahls, C., Lopez, M.,** Perricone, C., and Dickens, N. **2019** Molecular detection of *Toxoplasma gondii* and *Enterococcus faecalis* in the Indian River Lagoon (IRL) Florida. Aquaculture 2019 (triennial), 7-11 March, New Orleans, LA
  18. Browdy, C., **Laramore, S.,** Flores, D., and Van Wyk, P. **2019.** Shrimp health management: Disease prevention begins in the hatchery. Aquaculture 2019 (triennial), 7-11 March 7-11, New Orleans, LA.
  19. Sineva, E., Vinogradova-Shaw, T., Ballesteros, D., **Laramore, S.,** and Sayre, R. **2019** Quorum quenching Enterobacter strains improve shrimp survival during *Vibrio* infection. Aquaculture 2019 (triennial), 7-11 March, New Orleans, LA.
  20. Poster: **Laramore, S.,** Urban-Gedamke, E., Sinacore, C., Davidson, E., Shatters, A., Rose, E., **Yu, R.,** Beal, J., Dark, E. and Anderson, M.R. **2018.** Assessment of oyster (*Crassostrea virginica*) health in natural and restored reefs in the Northern, Central, and Southern Indian River Lagoon (IRL), Florida. 110<sup>th</sup> Annual National Shellfisheries Association Meeting, 26-30 March, Seattle, WA.
  21. Poster: **Brandimarte, N., Laramore, S.,** and Sturmer, L.N. **2018.** Health evaluation of triploid eastern oysters (*Crassostrea virginica*) under various culture conditions. 110th Annual National Shellfisheries Association Meeting, 26-30 March, Seattle, WA.

22. Sturmer, L.N., Cyr, C., Markham, R., [Brandimarte, N.](#), and **Laramore, S.** 2018. Application of triploidy to an emergent oyster culture industry on Florida's west coast: results of growers' trials. 110th Annual National Shellfisheries Association Meeting, 26-30 March, Seattle, WA.
23. <sup>b</sup>*Poster*: [Boeck, H.M.](#), **Laramore, S.E.**, Portnoy, D.S. and Scarpa, J. 2018. Preliminary findings of a survey for the oyster parasites *Bonamia* and MSX in Texas bays. 110th Annual National Shellfisheries Association Meeting, 26-30 March, Seattle, WA.
24. <sup>b</sup>**Laramore, S.**, Samocha, T., Kesselring, J., and Goncalves, A.R. 2018. Determination of probiotic levels for use in a biofloc shrimp culture system. Aquaculture America 2018, 19-22 February, Las Vegas, NV.
25. <sup>b</sup>Roy, L.A., Teichert-Coddington, D., **Laramore, S.**, Godwin, M. Dahl, S. James, J. Whitis, G.N., Beck, B.H. and Shoemaker, C.A. 2018. Evaluating variable survival and production on inland low salinity shrimp farms using commercial research demonstrations. Aquaculture America 2018, 19-22 February, Las Vegas, NV.
26. <sup>b</sup>**Laramore, S.**, Sinacore, C., Urban, E., Sturmer, L. and Yang, H. 2017. Reproductive patterns and fatty acid composition of wild and cultured sunray venus clams, *Macrocallista nimbosa*, on Florida's west coast. 109th National Shellfisheries Association Conference, March 26-30, Knoxville, TN.
27. **Laramore, S.**, Baptiste, R., and Sturmer, L. 2017. Spawning trials with cultured sunray venus clams, *Macrocallista nimbosa*, conducted outside the natural spawning season. 109th National Shellfisheries Association Conference, March 26-30, Knoxville, TN.
28. *Poster*: [Yu, R.](#), **Laramore S.**, Urban, E., Sinacore, C., Davidson, E., Rose, E., [Brandimarte, N.](#), Beal J., Dark, E. and Anderson M. 2017. Health of oyster (*Crassostrea virginica*) populations in natural and restored reefs along a north to south gradient in the Indian River Lagoon (IRL), Florida. 109<sup>th</sup> National Shellfisheries Association Conference, March 26-30, Knoxville, TN.
29. *Poster*: [Brandimarte, N.](#), **Laramore, S.**, and Dix, N. 2017. Health survey of *Crassostrea virginica* along a north to south gradient in Florida's Guana Tolomato Mantanzas National Estuarine Research Reserve. 109th National Shellfisheries Association Conference, March 26-30, Knoxville, TN.
30. **Laramore, S.**, and Scarpa, J. 2017. Growth and survival of shrimp cultured in water with differing ionic profiles. Aquaculture America 2017, 19-22 February, San Antonio, TX
31. *Poster*: **Laramore, S.**, [Yu, R.](#), Urban, E., Sinacore, C., Davidson, E., Rose, E., [Brandimarte, N.](#), Beal J., Dark, E. and Anderson M. 2017. Health of oyster (*Crassostrea virginica*) populations in natural and restored reefs along a north to south gradient in the Indian River Lagoon (IRL), Florida. Aquaculture America 2017, 19-22 February, San Antonio, TX.
32. **Laramore, S.**, and Scarpa, J. 2016. Towards establishing environmental mineral guidelines for low salinity shrimp culture in Florida. Aquaculture 2016 (triennial), 22-26 February, Las Vegas, NV.
33. **Laramore, S.**, Munoz, A., Baptiste, R., Wills, P., and Hanisak, D. 2016. Use of IMTA harvested seaweed, *Ulva lactuca*, in a RAS heterotrophic shrimp biofloc system. Aquaculture 2016 (triennial), 22-26 February, Las Vegas, NV.
34. <sup>b</sup>*Poster*: **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.
35. **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.
36. **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.

### **Regional presentations (2010 to present, of 13)**

1. Poster: **Laramore, S.**, Urban-Gedamke, E., Sinacore, C., Davidson, E., Shatters, A., Rose, E., **Yu, R.**, Beal, J., Dark, E. and Anderson, M.R. **2017**. Assessment of oyster (*Crassostrea virginica*) health in Natural and Restored Reefs in the Northern, Central, and Southern Indian River Lagoon (IRL), Florida. Indian River Lagoon Symposium, 9-10 February 9-10, Ft. Pierce, FL.
2. Beal, J., **Laramore, S.**, Dark, E., and Anderson, M.R. **2017**. Investigation into the health of oysters (*Crassostrea virginica*) in natural and restored reefs Across a latitudinal gradient in the IRL, Florida. Indian River Lagoon Symposium, 9-10 February, Ft. Pierce, FL.
3. Poster: **Yu, R.**, **Laramore S.**, Urban, E., Sinacore, C., Davidson, E., Rose, E., **Brandimarte, N.**, Beal J., Dark, E. and Anderson M. **2017**. Health of oyster (*Crassostrea virginica*) populations in natural and restored reefs along a north to south gradient in the Indian River Lagoon (IRL), Florida. Indian River Lagoon Symposium, 9-10 February, Ft. Pierce, FL.
4. **Brandimarte, N.**, Dix, N., and **Laramore, S.** **2016**. Disease survey of *Crassostrea virginica* oysters along a North to South gradient in the Guana Tolomato Matanzas National Estuarine Research Reserve. GTMNERR State of the Reserve, 6 February, Ponte Verde, FL.
5. Poster: 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, Fort. Pierce, FL.
6. Poster: **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, Fort Pierce, FL.
7. **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.

### **Non-Refereed Publications, Presentations and Proceedings**

#### **Non-Refereed Publications (2010 to present, of 11)**

1. Roy, L.A., Teichert-Coddington, D., **Laramore, S.**, Dahl, S., James, J., Whitis, G.N., Beck, B.H., and Shoemaker, C.A. **2018 (Dec)**. Commercial demonstration of a probiotic to enhance pacific white shrimp production in inland ponds of Alabama and Florida. *World Aquaculture Magazine*, 49 (4): 42-49.
2. **Laramore, S.E.** Samocha, T., Goncalves, R., and Kesselring, J. **2018 (June)**. Evaluating commercial probiotic for juvenile Pacific white shrimp. *Global Aquaculture Advocate*, 17 (3) 18-20.
3. Samocha, T., Prangnell, D., Castro, L., and **Laramore, S.** **2015 (June)**. Stress-Vibrio dynamics during high-density zero-exchange production of white shrimp. *Global Aquaculture Advocate* 18 (3): 18-20.
  - a. Cited by 3
4. **Laramore, S.**, Gordon, B., Baptiste, R., Wills, P., and Hanisak, D. **2014 (Dec)**. Utilization of *Ulva lactuca* as a supplement or partial replacement diet in *Litopenaeus vannamei* production. *Global Aquaculture Advocate* 17 (6): 44-45.
5. Garr, A. and **Laramore, S.** **2011 (June)**. HBOI at FAU researchers working hard to assess vast impacts of massive Deepwater Horizon oil spill. *Fish Farming News* 18 (3): 18-20.

#### **Technical Reports/Other (2015 to present, of 9)**

1. **Laramore, S.**, Sturmer, L., and Baldwin, J. FL Sea Grant Final Report **July/2021** “R/LR-A-56 project “Building hatchery capacity for production of a promising shellfish aquaculture species: the sunray venus clam” 26 pp
2. Sturmer, L., **Laramore, S.**, Adams, C. and Sims, C. NOAA SG OAR **Jan/2019** R-LR-A-53. Application of triploidy to an emergent oyster industry. 31 pp.
3. **Laramore, S.**, Beal, J., Geiger, S., and Dark, E. **June/2017**. FLDEP/FWC MEHRMA Final Report. Investigation of oyster (*Crassostrea virginica*) health on natural and restored reefs through routine monitoring in the Indian River Lagoon, FL, 26 pp.
4. **Laramore, S.** and Sturmer, L. **Dec/2016**. Reproductive patterns of cultured and wild sunray venus clams (*Macrocallista nimbosa*) in Florida West coast waters. FDACS#022377, 18 pp.
5. **Laramore, S.** **Dec/2015**. Increasing Shrimp Production in Florida by Establishing Environmental Mineral Guidelines for Low-Salinity Shrimp Culture Operations. FDACS #021072, 32 pp.

## Non-Refereed Presentations

### International

1. Wills, P.S., Scarpa, J., Hanisak, D., **Laramore, S.E.**, Garr, A., and Beiser, G. **2014**. Forays into Land-Based Integrated Multi-Trophic Aquaculture: Evolution from Open Ocean Ancestors. Canadian Integrated Multi-Trophic Aquaculture Network Fifth Technical Workshop. Saint John, New Brunswick, Canada, 19-20 February 2014. \*Wills, Invited Speaker.
2. **Laramore, S.** **2012**. Ionic balance: Basic principles and importance in shrimp culture. 3rd Feria Nacional del Camaron, 16-17 May, Pedernales, Ecuador. \*Invited Speaker
3. **Laramore, S.** **2012**. Ionic balance: Practical tips and bioremediation. 3rd Feria Nacional del Camaron. 16-17 May, Pedernales, Ecuador. \*Invited Speaker
4. **Laramore, S.** **2012**. Ionic balance control – A key to success in shrimp culture operations. La Sociedad Latinoamericana de Acuicultura (SLA), 14 April, Guayaquil, Ecuador. \*Invited Speaker

### National

1. **Laramore, S.** **2020**. Impact of oil and dispersant on early life stages of oysters. Texas and Gulf Sea Grant: Oil spill science Sea Grant programs of the Gulf of Mexico: topic oysters and oil spills, 14 Sept, Online meeting. \*Invited speaker
2. **Laramore, S.** **2007**. Gram positive cocci infection in *P. vannamei*. Fish Diagnosticians Workshop, Texas A& M Univ. 10-11 February, College Station, TX.

### Regional/Local (2015 to present, of 28)

1. **Laramore, S.** **2024**. Clam culture in a changing environment. HBOI Ocean Science Lecture Series, 17, Jan, FAU-HBOI, Fort Pierce, FL
2. **Laramore, S.** **2023**. Florida Sea Grant Workshop: 28, July, FAU-HBOI, Fort Pierce, FL
3. **Laramore, S.** **2023**. Florida Sea Grant Workshop: 25, July, Cedar Key, FL
4. **Laramore, S.** **2023**. The impacts of probiotics and prebiotics in RAS pompano aquaculture. Florida Sea Grant Workshop: Commercialization status of Florida pompano, 19, January, FAU-HBOI, Fort Pierce, FL.
5. **Laramore, S.** **2022**. Florida Clam Culture: Past, Present and Future. IRL Clam Workshop, SEERS, Florida Oceanographic Society, IO, 29 April, Stuart, FL. \*Invited speaker
6. Barbarite, G., Hanisak, M., D., Wills, P., **Laramore S.**, Davis, M. **2021**. Exploring the Integrated Multi-Trophic Aquaculture System at FAU Harbor Branch. HBOI Ocean Science Lecture Series. 14 July, FAU-HBOI, Fort Pierce, FL.
7. **Laramore, S.** **2018**. Oyster Health, McArthur Park, 22 Sept., Jupiter, FL.
8. **Laramore, S.** **2017**. Managing diseases in the hatchery through bacteriological monitoring. FLSG Shellfish Hatchery Workshop Series: 26 April, FWC Sen. Kirkpatrick Marine Lab, Cedar Key, FL.

9. **Laramore, S. 2017.** Shellfish Matters, HBOI Science Seminar, 30, Nov, Fort Pierce, FL
10. **Laramore, S. 2016.** Reproductive patterns of wild and cultured SRV clams in FL West coast waters, HBOI Ocean Science Lecture Series. 3 Nov., FAU-HBOI, Fort Pierce, FL.
11. Wills, P.S., Hanisak, D., **Laramore, S. 2016.** IMTA and the future of Aquaculture in the United States. HBOI Ocean Science Lecture Series. 13 Jan., FAU-HBOI, Fort Pierce, FL.
12. **Laramore, S., and Laramore, R. 2015.** Increased bivalve hatchery and nursery production through improved management. Florida Clam Industry Workshop. 10 March, FAU-HBOI, Fort Pierce, FL.
13. **Laramore, S. 2015.** Increasing shrimp production in Florida by establishing mineral guidelines for low salinity shrimp culture. Egeria culture and low salinity shrimp culture ARC/FDACS workshop. 21 October, FAU-HBOI, Fort Pierce, FL.

### **Creative Activities and Achievements**

#### **Videos**

1. July 2023 – “Vibrio sampling techniques and tips for clam hatcheries” - 13 minutes - uploaded to FAU You Tube site and FL Shellfish website. Wrote script, compiled photos, and video clips. <https://youtu.be/SUQ1vSvfg10>
2. March 2023 – “Larval culture techniques for Sunray Venus Clams” – 12 minutes – uploaded to FAU You Tube site and FL Shellfish website. Wrote script, compiled photos, video clips, created tables and charts. <https://youtu.be/2zhq6KmQly0>
3. December 2022 – “Maturation and spawning techniques for Sunray Venus Clams” – 8 minutes – uploaded to FAU You Tube site and FL Shellfish website. Wrote script, compiled photos, video clips, created tables and charts. <https://youtu.be/x2OijCM9z5U>

#### **Interviews**

1. WPTV 2015, West Palm Beach – A ten-year retrospective on the Deepwater Horizon Oil Spill, Michael Williams Sunday morning segment.
2. Australia radio, Melbourne Australia 2015 - Ten years after Deepwater Horizon.
3. WPTV 2011, West Palm Beach – Impacts of the Deepwater Horizon Oil Spill, Michael Williams Sunday morning segment.

## **GRANTS**

### **External Funded (Jan 2016 to Jun 2023, of 74 since 2004)**

1. **Laramore, S.** Clams for Restore our Shores, Brevard Zoo, \$16K, 03/31/2023-04/30/2024
2. **Laramore, S.** Comparative benchmarking of growth, survival and feeding efficiencies of *L. vannamei* fed diets of varying nutritional composition, Supplement 13, Private Industry, \$279K, 01/01/2023-12/31/2023
3. **Laramore, S.** Restore our shores, oysters; supplement 4, Brevard Zoo, \$15.5K, 01/01/2023-12/31/2023
4. **Laramore, S.** Comparative benchmarking of growth, survival and feeding efficiencies of *L. vannamei* fed diets of varying nutritional composition, Supplement 11, Private Industry, \$291K, 01/01/2022-12/31/2022
5. **Laramore, S., & McCarthy P.** Potential of engineered bacterial constructs to protect shrimp from viral and bacterial pathogens of interest in aquaculture, Task 2 Supplement 8, Private Industry, \$252,496 06/01/2022-5/31/2023
6. **Laramore, S.,** Restore our shores, oysters, Brevard Zoo, \$15K, 01/01/2022-12/31/2023
7. **Laramore, S., & Masterson, J.** Indian River State College Degree Program , IRSC, \$32K, 08/23/2022-08/22/2023

8. **Laramore, S., & McCarthy P.** The development of controlled individual disease challenge systems for the evaluation of the relative susceptibility of shrimp to viral and bacterial challenge, Supplement 8, Private Industry, \$36.5K, 01/01/2021-6/30/2022
9. **Laramore, S.,** Comparative benchmarking of growth, survival and feeding efficiencies of *L. vannamei* fed diets of varying nutritional composition, Supplement 10, Private Industry, \$220K, 01/01/2021-12/31/2021
10. **Laramore, S., & McCarthy, P.** Potential of engineered bacterial constructs to protect shrimp from viral and bacterial pathogens of interest in aquaculture, Task 3, Private Industry, \$263K, 05/01/2021-04/30/2022
11. **Laramore, S.,** Restore our shores, oysters; supplement 3, Brevard Zoo, \$14.8K, 01/01/2021-12/31/2021
12. **Laramore, S.,** Masterson, J. & Wills, P. Indian River State College Degree Program, IRSC \$32,234, 08/23/2021-08/22/2022
13. Welch, A., Roberson, L. & **Laramore, S.** NOAA S&K. Enhancing Marine Aquaculture in the tropical US: Methods for sustainable commercial co-cultivation of shellfish and seaweed in FL \$300,000, \$15.4K (FAU), 09/01/2021-08/31/2023
14. **Laramore S.,** and McCarthy, P. The development of controlled individual disease challenge systems for the evaluation of the relative susceptibility of shrimp to viral and bacterial challenge, Supplement, amendment 8, Private Industry. \$36K, 01/01/2020-12/31/2020
15. **Laramore, S.,** Comparative benchmarking of growth, survival and feeding efficiencies of *L. vannamei* fed diets of varying nutritional composition, Supplement 10, Private Industry, \$210K, 01/01/2020-12/31/2020
16. **Laramore S., & McCarthy, P.** Potential of engineered bacterial constructs to protect shrimp from viral and bacterial pathogens of interest in aquaculture, Task 2, Private Industry, \$200K, 03/31/2020-04/01/2021
17. **Laramore, S.,** Masterson, J. & Wills, P. Indian River State College Degree Program,, IRSC \$32K, 08/23/2020-08/22/2021
18. Baker, S., Sturmer, L., Collins, A., Floyd, R., Philips, E. & **Laramore, S.** Evaluating the abiotic and biotic factors influencing hard clam production in FL Florida Sea Grant, UF Flow-through \$199K, \$68K (FAU), 02/01/2021-01/31/2023 (*delayed one year due to COVID; originally 02/01/2020-01/31/2022*)
19. **Laramore, S.,** Probiotic effects in a biofloc shrimp culture system, Private Industry, \$24K, 06/01/2019-12/30/2019
20. **Laramore S.,** Clam Research, Technical Support and Training Project, Private Industry, \$342K, 05/04/2019-04/30/2021
21. **Laramore, S.,** Masterson, J. & Wills, P. Indian River State College Degree Program, IRSC, \$32K 08/23/2019-08/22/2020
22. **Laramore, S. & McCarthy, P.** The development of controlled individual disease challenge systems for the evaluation of the relative susceptibility of shrimp to viral and bacterial pathogens, Supplement, amendment 5, \$41K, 01/01/2019-12/31/2019
23. **Laramore, S.** Comparative benchmarking of growth, survival and feeding efficiencies of *L. vannamei* fed diets of varying nutritional composition, Supplement 10, Private Industry, \$192K, 01/01/2019-12/31/2019
24. **Laramore, S., & McCarthy, P.** Potential of engineered bacterial constructs to protect shrimp from viral and bacterial pathogens of interest in aquaculture, Task 2, \$198K, 03/31/2019-04/01/2020
25. **Laramore, S.** Restore our shores, oysters; supplement 3, Brevard Zoo, \$13.6K, 07/01/2019-06/30/2020
26. Wills, P., Davis, M., Browdy, C., Snyder, S., & **Laramore S.** Final steps towards commercialization of pompano aquaculture, NOAA Sea Grant, UF-FFT, \$688k 09/01/2018-08/21/2021 (delayed due to Covid – actual performance period to 07/01/2023)

27. **Laramore, S.**, Masterson, J. & Wills, P. Indian River State College Degree Program,, IRSC \$32K, 08/23/2018-08/22/2019
28. **Laramore S.**, & McCarthy, P. The development of controlled individual disease challenge systems for the evaluation of the relative susceptibility of shrimp to viral and bacterial pathogens, Supplement, amendment 4, Private Industry, \$46.6K, 01/01/2018-12/31/2018
29. **Laramore, S.** Comparative benchmarking of growth, survival and feeding efficiencies of *L. vannamei* fed diets of varying nutritional composition, Supplement 5, Private Industry, \$191K, 01/01/2018-12/31/2018
30. **Laramore, S.**, & McCarthy, P. Potential of engineered bacterial constructs to protect shrimp from viral and bacterial pathogens of interest in aquaculture, Task 2, Private Industry, \$150K, 01/01/2018-12/31/2018
31. **Laramore, S.**, Baldwin, J. & Sturmer, L. Building Hatchery Capacity for Production of a Promising Shellfish Aquaculture Species: the Sunray Venus Clam, Florida Sea Grant, UF Flow-through \$197.5K, \$152K (FAU), 02/01/2018-01/31/2020
32. **Laramore, S.** Comparative benchmarking of growth, survival and feeding efficiencies of *L. vannamei* fed diets of varying nutritional composition, Supplement 5, Private Industry, \$111K, 01/01/2017-12/31/2017
33. **Laramore, S.**, Masterson, J. & Wills, P. Indian River State College Degree Program,, IRSC \$32K, 08/23/2017-08/22/2018
33. **Laramore S.**, & McCarthy, P. The development of controlled individual disease challenge systems for the evaluation of the relative susceptibility of shrimp to viral and bacterial pathogens, Supplement, amendment 3, Private Industry, \$45.5K, 11/30/2016-5/30/2017
34. Laramore, S., & Samocha, T. Determination of Probiotic levels for use in a biofloc shrimp culture system, Private Industry, \$26K, \$23K (FAU), 09/30/2016-9/18/2017
35. **Laramore, S.**, Masterson, J. & Wills, P. Indian River State College Degree Program,, IRSC \$32K, 08/23/2016-08/22/2017
36. **Laramore, S.** Comparative benchmarking of growth, survival and feeding efficiencies of *L. vannamei* fed diets of varying nutritional composition, Supplement 4, Private Industry, \$98.8K, 01/01/2016-12/31/2016
37. **Laramore, S.**, & McCarthy, P The development of controlled individual disease challenge systems for the evaluation of the relative susceptibility of shrimp to viral and bacterial pathogens, Supplement, amendment 2, Private Industry, \$22K, 09/28/2015-09/27/2016
38. Sturmer, L., Adams, C., Sims, C., & **Laramore, S.** Application of triploidy to an emergent oyster culture industry on the West coast of Florida, UF-Fed Flow Thru (NOAA Sea Grant) \$200K, \$58K(FAU), 9/1/2015-8/31/2017
39. **Laramore, S.**, Masterson, J. & Wills, P. Indian River State College Degree Program,, IRSC \$32K, 08/21/2015-08/20/2016
40. **Laramore, S.**, & Sturmer, L. Reproductive patterns of cultured and wild SRV clams (*Macrocallista nimbosa*) in FL west coast waters, Aquaculture Research Council (FL ARC) \$43K, \$32K (FAU), 07/01/2015-06/30/2016
41. **Laramore, S.** Comparative benchmarking of growth, survival and feeding efficiencies of *L. vannamei* fed diets of varying nutritional composition, Supplement 3, Private Industry, \$63K, 01/31/2015-01/31/2016
42. **Laramore, S.** Comparative benchmarking of growth, survival and feeding efficiencies of *L. vannamei* fed diets of varying nutritional composition, Private Industry, \$16.5K, 01/31/2015-01/31/2016
43. **Laramore, S.**, & 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, \$52.7K, 01/31/2015-01/31/2016

**Internal Funded (Jan 2016-June 2023, of 18 since 2010)**

1. Barbarite, G., Masterson, J, Davis, M, Wills, P. & **Laramore, S.** Exploring Florida aquaculture public workshops, HBOIF-State License Plate – Aquaculture, \$60K, 07/01/2023-06/30/2024
2. Wills, P., Hanisak, MD, Barbarite, G., Ouyang, B., Page-Karjian, C., Masterson, J, Chaves-Fonnegra, A., Jiang, M, Pomponi, S., Davis, M, Beckler, J, Sahar, M. & **Laramore, S.** Advancing technologies for IMTA system management and products 2024, HBOIF-State License Plate – Aquaculture, \$392K, 07/01/2023-06/30/2024
3. Wills, P., Hanisak, MD, Barbarite, G., Ouyang, B., Page-Karjian, C., Masterson, J, Chaves-Fonnegra, A., Jiang, M, Pomponi, S., Davis, M, Beckler, J, Sahar, M., McCarthy, P. & **Laramore, S.** Advancing technologies for IMTA system management and products, Funding Agency: HBOIF-State License Plate – Aquaculture, \$325K, 07/01/2022-06/30/2023
4. Wills, P., Hanisak, MD, Barbarite, G., Ouyang, B., Page-Karjian, C., Masterson, J, Chaves-Fonnegra, A., Jiang, M, Pomponi, S., Davis, M, Beckler, J, Sahar, M., McCarthy, P. & **Laramore, S.** Aquaculture technology for IMTA system management and products, HBOIF-State License Plate - Aquaculture \$232K, 07/01/2021-06/30/2022
5. Wills, P., Hanisak, MD, Barbarite, G., Ouyang, B., Dalgleish, A., Page-Karjian, C., Masterson, J, Jiang, M, Pomponi, S., Davis, M, Beckler, J, McCarthy, P. & **Laramore, S.** Advanced technology for system management, invertebrate health, and integration of additional new species for a land based IMTA systems, HBOIF-State License Plate – Aquaculture, \$228K, 07/01/2021-06/30/2022
6. Ajemian, M., Wills, P., & **Laramore, S.** Understanding interactions between on-bottom bivalve culture and suspected large mobile predators, HBOIF-State License Plate – Aquaculture, \$80K, 07/01/2020-06/30/2022
7. Wills, P., Hanisak, MD, Barbarite, G., Dalgleish, A., Jiang, M, Pomponi, S., Davis, M, Beckler, J., McCarthy, P. & **Laramore, S.** Title: New Species and Technology development for a land based IMTA system, HBOIF-State License Plate – Aquaculture, \$190K, 07/01/2019-06/30/2020
8. Wills, P., Hanisak, MD, Barbarite, G., Dalgleish, A., Jiang, M, Pomponi, S., Davis, M, McCarthy, P. & **Laramore, S.** Title: New Species and Technology development for a land based IMTA system, \$218K, 07/01/2018-06/30/2019
9. **Laramore, S.**, McCarthy, P., Kirchoff, N., & McCrudden, T. Determination of IRL Pathogenic Bacterial Impacts on the East Coast, Florida Aquaculture Industry, HBOIF-State License Plate – Aquaculture, \$35K, \$12.5K (FAU), 07/01/2017-06/30/2018
10. Wills, P., Dalgleish, A., Jiang, M, Pomponi, S., Davis, M, McCarthy, P. & **Laramore, S.** Advancement of Land-based Integrated Multitrophic Aquaculture, HBOIF-State License Plate – Aquaculture, \$709K, 07/01/2016-06/30/2019
11. **Laramore, S.**, & Riche, M. Prototype Integrated Multi-Trophic Aquaculture System for Land-Based aquaculture: Fed component – sea urchins and other echinoderms, HBOIF-State License Plate – Aquaculture, \$33K, 07/01/2015-06/30/2016

## COURSES TAUGHT

### ***FAU***

#### Graduate:

PCB 6772 Aquatic Animal Health, 3 cr, Fall semester (2017, 2019, 2021, 2023 taught alternate years):  
 OCE 6908 Marine Science and Oceanography Directed Independent Research (2020)  
 OCE 6972 Marine Science and Oceanography MS Research (2020-2023)  
 BSC 6905 Biological Science Directed Independent Research (2013-2017)  
 BSC 6971 Biological Science MS Research (2014-2018)

#### Undergraduate (Semester by the Sea):

BSC 4930 Aquaculture Practices and Impacts Spring semester (2020-2023)  
 BSC 4905 Biological Science Directed Independent Research (2018)  
 OCB 4525 Marine Microbiology and Molecular Biology, 3 cr. Spring semester (2009-2018)  
 BSC 4930 Aquaculture and the Environment, 3 cr. Spring semester (2010-2019)

**IRSC – AAS aquaculture degree program**

FAS 2252 Aquatic Animal Health Management, 4 cr. (1998-2023): **Developed course in 1998**

FAS 2150 Crustacean Culture, 4 cr. (2015-2023)

FAS 2151 Molluscan Culture, 4 cr. (2014-2022)

FAS 1400 Introduction to Hydroponics, 3 cr. (2014-2018): **Developed course in 2014**

FAS 1402 Introduction to Aquaponics, 3 cr. (2016-2018): **Developed course in 2016**

FAS 1010 Introduction to Aquaculture, 3 cr. (2008-2015)

FAS 2940 Aquaculture Internship (1-3 cr) (2015-2020)

**SUPERVISION and ADVISING ACTIVITIES**

Supervision of Graduate Students			
Student	Degree Program	Completion Date	Thesis/Dissertation Title
Bonnie Getter	MS Marine Science & Oceanography	Fall 2023	Changes in water quality and microbiota over two years in Florida hard clam ( <i>Mercenaria mercenaria</i> ) hatcheries
Edward Perri	MS Marine Science & Oceanography	Sum 2021	Effect of microalgae (species, processing) on sunray venus clam ( <i>Macrocallista nimbosa</i> ) and hard clam ( <i>Mercenaria mercenaria</i> ) production and fatty acid content
Nicholas Brandimarte	MS Marine Science & Oceanography	Failed to complete	Health and performance of triploid eastern oyster ( <i>Crassostrea virginica</i> ) under various culture conditions
Lucas Jennings	MS Biological Sciences	Sum 2014	Nematocyst Replacement in the Sea Anemone <i>Aiptasia pallida</i> Following Predation by <i>Lysmata wurdemanni</i> : an Inducible Defense?

Post Doctoral Supervision				
Name	Date	Role	Project Title	Products
Dr. Mohamed Mahbulul Hassan, Flinders Univ, Aust	2019-2021	Supervisor	Impacts of diets on hard clam, <i>Mercenaria mercenaria</i> , production	Two presentations, four publications
Dr. Holly Nance, Clemson Univ	2010-2012	Co-Supervisor, others: Dr. John Scarpa, Dr. C Ed Proffit	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	Two presentations

Advising Activities 2016 -2023				
Student	Degree Program	Completion Date	Project/Thesis/Dissertation Title	Role
Lilly Borema	BS, FIT	Spr 2024	The effectiveness of ATP bioluminescence as an indication of the level of hygiene in a marine aquaculture facility	Summer Internship Co-Mentor 2023
Hailey Davis	MS, FAU Marine Science & Oceanography	Spr 2023	Hyposalinity stress tolerances of <i>Montastraea cavernosa</i> and <i>Porites astreoides</i> corals in Southeast Florida and implications for coastal freshwater management	Graduate Thesis Committee Member
Lydia Moreland	MS, FAU Marine Science & Oceanography	Spr 2023	Non Thesis	Graduate Thesis Committee Member
Marlyn Kallou	PhD, UF Fisheries & Forestries	Spr 2025	Evaluation of total lipid content in different species of microalgae by use of flow cytometry and their effects on broodstock sex maturity in hard clams <i>Mercenaria mercenaria</i>	Graduate Dissertation Committee Member
Meghan Keough	BA FAU Biological Sciences	Spr 2023	Deep dive into how fluctuating pH affects post-set clam production	Summer Internship Mentor 2022
Tyler Bianchine	MS, FAU Marine Science & Oceanography	Fall 2021	Effects of feed pellets form factor in conjunction with $\beta$ -glucan on production characteristics of Florida pompano <i>Trachinotus carolinus</i>	Graduate Thesis Committee Member
Jade Salis	BS, Coastal Carolina University	Spr 2022	Can Juvenile Hard Clams, <i>Mercenaria mercenaria</i> , be Successfully Produced in an IMTA System that Experiences Varying pH?	Summer Internship Mentor 2021
Thomas Cole	AS, IRSC	Spr 2019	NA, Work study, assisted with clam projects	Fall Internship Mentor
Tyler Serio	AS, IRSC	Spr 2019	NA, work study, assisted with a shrimp probiotic experiment	Fall Internship Mentor
Emily Rutkowski	BS, IRSC	Fall 2019	Survey and salinity preferences of <i>Suberites aurantiacus</i> in the Indian River Lagoon	Summer Internship Co-Mentor 2019
Tonia Henning	BS, Buena Vista University	Spr 2020	Production of the Sea Cucumber <i>Holothuria floridana</i> with three different diets in an IMTA system	Summer Internship Mentor 2019
Hailey Boeck	MS, Texas A & M	Spr 2018	Survey for the oyster parasites Bonamia, MSX, and Dermo in Texas Bay systems	Graduate Thesis Committee Member
Charlotte Ahls	BS, Indiana Univ	Spr 2019	Molecular screening of Eastern Oysters in the Indian River Lagoon for <i>Toxoplasma gondii</i> and <i>Enterococcus faecalis</i>	Summer Internship Mentor 2018
Erica Albright	BS, FAU Biological Sciences	Spr 2018	Production of <i>Parhyale hawaiiensis</i> : Dietary and Temperature Effects	Summer Internship Mentor 2017
Reika Yu	BS, Boston Univ	Spr 2017	Comparison of Health of <i>Crassostrea virginica</i> in Restored and Natural Reefs in the Indian River Lagoon	Summer Internship Mentor 2016
Christie Gonzales	MS, FAU Biological Sciences	Fall 2017	Non Thesis	Graduate Thesis Committee Member
Rachel Plunkett	MS, FAU Biological Sciences	2016	Morphology, genetics and host specialization of trematode larvae (Digenea) in the microbiome of a marine sponge ( <i>Spongia</i> sp.)	Graduate Thesis Committee Member
Pedro Lara	MS, FAU Biological Sciences	Failed to complete	A comparison of intertidal oyster ( <i>Crassostrea virginica</i> ) microhabitats: are mangroves a refuge from <i>Perkinsis marinus</i> (Dermo) infections	Graduate Thesis Committee Member
David Roth	BS, FAU Wilkes Honors College	Spr 2016	Evaluations of the PrO2-026 oxygen delivery system in a side by side comparison of recirculating aquaponics systems	Senior Thesis Undergrad Advisor

