**Nicolette Mariano**



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## Education

*Florida Institute of Technology*  
Melbourne, FL

B.S. Biological Science Aquaculture

Date of completion: December 14, 2013

GPA: 3.22

**Relevant coursework**

* + - Molluscan Aquaculture
    - Crustacean Aquaculture
    - Biology of Fishes
    - Fisheries Science
    - Fish Aquaculture & Management
    - Invertebrate Zoology
    - General Ecology
    - Microbiology
    - Biometry
    - Biochemistry I
    - General Genetics
    - Organic Chemistry I & II
    - Marine/Environmental Chemistry
    - Intro to Psychology
    - Child Psychology

## Scientific Field Skills

* + - Oyster restoration
    - Mangrove restoration
    - Conch restoration
    - Reef and estuarine fish identification
    - Underwater transect surveys
    - Seining surveys
    - Benthic surveys
    - Water quality analysis
    - Internal and external fish tagging
    - YSI maintenance and training

**Certifications and Diving Skills**

* PADI open water diver, certified 6/10/2007
* PADI rescue diver, advanced open water diver, and enriched air diver certified 8/5/2011
* AAUS (American Academy of Underwater Sciences) certified 8/5/2011
* Florida Education Certification covering Biology (Grades 6-12) & General Science (Grades 5-9)
* Massachusetts approved substitute teacher for the Town of Barnstable
* Technical proficiencies in IBM SPSS 20 statistical software and Microsoft Office Excel 2007.
* Before First Responders Training 5/1/2018
* First Aid, certified 6/16/2014
* CPR, certified 6/16/2014
* Oxygen and AED, certified 7/18/2011

## Internship Experience

Florida Fish and Wildlife Research Institute S.E.R.F. – 14495 Harllee Rd., Port Manatee, FL 34221

**S.E.R.F. Intern**

September 2012 to December 2012

**Supervisor** – Gina Russo

**Telephone** (941) 723-4505

**Duties:** Assisted hatchery biologists with the propagation and rearing of red drum, rotifers, and *Artemia*, assisted with tank, recirculating aquaculture system (RAS), and pond maintenance, fingerling and brood stock management, water quality, feeding, sampling, harvesting and tagging, assisted with data acquisition and management, operated equipment such as dissolved oxygen meters, spectroscopy machines, hydrolabs, and plankton sleds.

**Research:** Focused on the effect of enrichment dosages on *Brachionus* survival over time.

## Employment

***Oyster Boss, LLC***

– 48 Island Drive Eastpoint, FL 32328

**South Florida Regional Manager, Aquaculture Biologist**

August 2018to February 2019

**Duties:** As the South Florida Regional manager I am responsible for marketing, distribution, sales, customer relations, advertising, social media, and education for our farm raised oysters. I am also responsible for putting together and executing special such as weddings and seafood festivals for our shucking catering service across Florida. As the on staff biologist it is my duty to collect and analyze water quality, oyster health, oyster growth, and more. I have implemented our best management practices plan, three year seed and harvest plan, designed and scheduled to bring on a total of nine acres of oyster aquaculture leases in Alligator Harbor.

***Dr. David L. Anderson Middle School: Martin County School System*** – 7000 SE Atlantic Ridge Dr, Stuart, FL 34997

**Sixth Grade Science Teacher**  **Supervisor** – Timothy Aitken

January 2018to May 2018 **Telephone** (772) 221-7100

**Duties:** As a sixth grade teacher, I was responsible for daily planning and teaching, monitoring students progress, maintaining strong relationships with my students’ parents, and collaborating with my grade level and science team members. I have also participated in curriculum mapping of 6th-8th grade level science standards, collaborative coaching and learning models, and I incorporate hands-on learning to increase student engagement. Also, I was the team leader for our school’s table at Water Fest 2018. Which included a hands-on water testing activity and a Indian River Lagoon touch tank with local marine species of fish and crustaceans.

***Thad Cochran Marine Aquaculture Center at University of Southern Mississippi*** – 703 East Beach Dr., Ocean Springs, MS 39564

**Aquaculture Biologist II - Algae**

April 2017to October 2017

**Duties**: As the lead biologist my primary responsibility is monitoring and maintaining algae cultures from the clean room through scale-up to mass culture while maintaining high standards of biosecurity and cleanliness in the laboratory and production areas.

***Department of Cell Biology at Duke University Medical Center*** – 307 Research Dr. Nanaline Duke Bldg., Durham, NC 27710

**Research Technician I**  **Supervisor** – Jim Burris

June 2016 to April 2017 **Telephone** (919) 668-2061

**Duties**: As part of the facilities staff I assist with zebrafish husbandry which includes: multiple daily fish feedings, *Artemia* cyst decapsulation and culture care, water quality analysis and readings, daily fish health checks, cleaning, maintenance, and filter changes pertaining to seven recirculating aquaculture system (RAS), transferring fish embryos and providing care in nursery racks, and communicate with researchers in regards to their fish health and care.

## Employment Continued

***Muscongus Bay Aquaculture, INC.*** – P.O. Box 204 Bremen, ME 04551

**Hatchery Technician**  **Supervisor** – Tonie Simmons

February 2015 to February 2016 **Telephone** (207) 529-4900

**Duties**: Assist hatchery staff in maintaining and feeding shellfish brood stock and spat, (*Crassostrea virginica*, *Mercenaria mercenaria*, and *Argopecten irradians*) maintaining different cultures of algae, maintaining and caring for larval shellfish in indoor downweller systems before being transferred to Floating Upweller System (FLUPSY). I also worked out on the farm sorting, grading, and inspecting oysters for market. A few months after transitioning from the hatchery to the farm I was also put in charge overseeing the packing, tagging, and shipping of the oysters.

***Town of Barnstable Marine & Environmental Affairs*** – 1189 Phinneys Lane, Centerville, MA 02632

**Shellfish Aquaculture Assistant** **Supervisor** – Tom Marcotti

April 2014 to December 2014  **Telephone** (508) 790-6272

**Duties**: Assist shellfish biologist and shellfish technician with general and technical work in matters relating to shellfishery in the town. This includes maintaining oysters for grow out in bag and tray systems, planting quahogs underneath predator exclusion nets, and daily animal husbandry in regards to caring for quahog seed in a FLUPSY (Floating Upweller System).

***Crowes Pasture Oyster Farm LLC*** – P.O. Box 140 South Dennis, MA 02660

**Shellfish Aquaculture Farm Staff** **Supervisor** – Gary Sawayer

August 2014 to December 2014  **Telephone** (508) 737-3828

**Duties**: Assist with aquaculture gear maintenance, size grading, chipping, sorting, and packing oysters to be taken for delivery to wholesaler.

***Florida Tech Biological Science Laboratory*** – 150 W University Blvd., Melbourne, FL 32901

**Laboratory Assistant** **Supervisor** – Dr. Jonathan Shenker

August 2013 to December 2013 **Telephone** (321) 674-8145

**Duties**: Assist with gut content analysis of juvenile pelagic fish, sorting, and identification of larval fish collected over the past summer in the Gulf of Mexico by plankton and neuston sampling.

***Link Foundation Ocean Engineering*** – 150 W University Blvd., Melbourne, FL 32901

**Floating Island Treatment System Team**

January 2012 to May 2012

**Supervisor** – Dr. Robert J. Weaver

**Telephone** (321) 674-7273

**Duties:** Assist ocean engineering students in designing a self-sustainable floating island system with native plants to increase the water quality of drainage water.

***Florida Tech Aquaculture Facility*** – 150 W University Blvd., Melbourne, FL 32901

**Wet Lab Technician**  **Supervisor** – Dr. Junda Lin

January 2011 to May 2011 **Telephone** (321) 674-7587

**Duties**: Produce an increase in population curve in culturing microalgae *Isochrysis* sp. and *Nannochloropsis* sp., maintaining and re-culturing the microalgae population.

## Volunteer Experience

#### Environmental Studies Center: 19 years volunteer service

**Duties**: Educate the public about preservation of Florida's ecosystem.

**Founding member, ESC Junior Council** (2008) - Students and citizens of the community planned and executed beach clean ups, mangrove restoration projects, conch restoration projects, constructed reef balls, went seining, and held open houses at the ESC.

#### Florida Oceanographic Coastal Center: 4 years volunteer service

**Duties**: Nature trail guide, held sting ray feeding presentations, and provided guests with knowledge of the exhibits.

#### Research Aquaculture: 4 years volunteer service

**Duties**: Helped rebuild and reestablish an aquaculture facility, following Hurricane Wilma, helped with clam and oyster spawns and growing different cultures of microalgae.

#### Florida Fish and Wildlife Indian River Field Laboratory: 1 years volunteer service

**Duties**: I assist fisheries biologists with different size seine net sampling methods and bottom trawls, in the field and in the laboratory fish identification for representative samples and definitive identification samples, and prepare significantly important fish samples for mercury testing.

## Organizations

Environmental Studies Council (Trustee Member)

FAA (Florida Aquaculture Association)

Oyster South

Billion Oyster Project

NCAA (North Carolina Aquaculture Association)

ZHA (Zebrafish Husbandry Association)

Beta Beta Beta (National Biological Honor Society)

M.B.S (Marine Biology Society)

**Honors**

Awarded one Florida State S.T.E.M. Scholarship (2012-2013).

Awarded two Paul André Hermansen Scholarships (2011-2013).

Awarded two Whitehead Scholarships (2011-2013).

Awarded two scholarships from the Florida Aquacultire Association, Dan Leonard Scholarship Program (2010-2011).

Awarded one scholarship from the Florida Federation of Garden Clubs (2011-2012).

Awarded one scholarship from the Garden Club of Stuart (2009-2010).

Awarded two scholarships from the Jupiter Island Garden Club (2009-2010).

Awarded four scholarships from the Environmental Studies Center Walter Stokes Scholarship (2009-2013).

Awarded four FL Tech Challenge Award from Florida Institute of Technology (2009-2013).

Awarded three FL Tech Grant from Florida Institute of Technology (2009-2012).