**Adam Hernandez**

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*9520 West Norfolk Street*

*Tampa, FL 33615*

**Education:**

***Florida Institute of Technology*** Melbourne, FL

Bachelor of Science in Biology: Marine Option Graduated Spring 2010

***SUNY Stony Brook*** Stony Brook, NY

Master of Arts in Ecology and Evolution Graduated Spring 2013

**Work Experience:**

***Atlantic Sapphire LLC*** Miami, FL and Hvide Sande, Denmark

*Biological Performance Manager* October 2016 – October 2018

* Monitored, managed, executed, and projected salmon condition, feeding, and stocking for a 300 ton standing livestock recirculating aquaculture facility
* Established, managed, executed, and reported production data using Mercatus AquaFarmer and Akva FishTalk software
* Executed harvesting and movement procedures by net and by vacuum pump on fish from 100 g to 4500 g
* Monitored and maintained automated feeding systems (ArvoTec Silos, Spreaders, and Control Systems)
* Monitored and maintained water and operational sensor equipment (Oxyguard, YSI, Gryf Optical DO, SCADA Systems, Blue Unit)
* Monitored, managed, maintained, and executed water treatment, analysis, and control for a 2.6 million gallon recirculating aquaculture facility (Fixed Bed, Moving Bed, Degassing, Denitrification, Belt Filters, UV, Membrane UltraFiltration)
* Monitored, managed, maintained, executed, and improved ozone water treatment mechanical systems and operational procedures (up to 2.2 kg/hour O3)
* Investigated, managed, and executed innovation research and testing on recirculating aquaculture equipment, design, and protocols (Control System, Husbandry Management, Health Analysis)
* Executed hatchery and smoltification procedures for salmon (Hatching, Fry, Start Feed, Parr, Smoltification)

***Florida Organic Aquaculture*** Fellsmere, FL

*Vice President* February 2015 - September 2016

* Constructed and managed water treatment and UV sterilization systems
* Constructed and managed salt tolerant crop production facilities and procedures focused on Sea Asparagus and Sea Purselane
* Constructed aquaculture by-product recovery systems for economical production of value add lines

***Florida Organic Aquaculture*** Fellsmere, FL

*Quality Assurance* August 2014 - January 2015

* Monitored, managed, and established a food safety and processing team and operational protocols
* Audited and Certified by Publix and Florida Department of Agriculture
* Developed food safety protocols and records in addition to a HACCP plan
* Supplied strategic and local accounts (Publix, local farmer’s markets, local restaurants)
* Constructed a food processing facility and food safety laboratory
* Programmed Excel spreadsheets for water quality, production, and processing management in shrimp aquaculture

***Florida Organic Aquaculture*** Fellsmere, FL

*Water Quality Technician* May 2014 - July 2014

* Monitored, managed, and executed protocols and records for water quality
* Designed and led the construction of a water quality laboratory
* Monitored, managed, and established a water quality team

***SUNY Stony Brook*** Stony Brook, NY

*Teaching Assistant* August 2010 - August 2013

* Instructed students in introductory biological and evolutionary concepts, comparative chordate anatomy, and plant ecology.
* Oversaw and prepared teaching materials, including the creation of lesson plans, syllabi, and classroom handouts, for five college laboratory sections
* Laboratory courses taught:
  + BIO 204 Intro Biology Lab I
  + BIO 344 Chordate Zoology
  + BIO 354 Evolution
  + BIO 385 Plant Ecology

**Research Experience:**

***SUNY Stony Brook*** Stony Brook, NY

*Master* May 2011 - August 2013

* Aided in the capture, fertilization, transport, hatching, and rearing of over 500 fish for laboratory purposes
* Collected over 1,000 fish samples from Alaskan lakes and preserved them in formalin and ethanol for analysis during a month long expedition to Alaska (300 working hours)
* Aided in disposal of invasive Alaskan Blackfish captured in lakes sampled for Threespine Stickleback
* Managed, maintained, and repaired a 750 gallon recirculating system housing 60 individual aquaria
* Planned and managed a dietary composition study on several Alaskan populations of Threespine Stickleback while managing 5 undergraduate students
* Supervised and provided image capture and processing for the generation of a developmental series for Threespine Stickleback from three Alaskan populations while managing 5 undergraduate students
* Demonstrated sampling techniques in an HHMI virtual laboratory
* Prepared a Threespine Stickleback developmental series and accompanying manuscript for publication in a peer reviewed journal

***Florida Institute of Technology*** Melbourne, FL

*Undergraduate* May 2008 - May 2010

* Planned and developed the application of neural networks to protein-protein interaction networks involving PLCγ in the fertilization pathway of Pacific starfish, Pisaster sp.
* Isolated proteins in the PLCγ pathway using Western Blot and florescence techniques

**Professional Certifications:**

* Food Protection Manager Certification

**Skills:**

* Animal husbandry, monitoring, and histology
* Water chemistry
* Food safety and processing
* Plumbing, pump systems, mechanical repair, fencing, roofing, minor electrical
* Repair and maintenance
* Design and construction
* Earthworks
* Microsoft Office Suite proficient with extensive experience in Excel, Word, and PowerPoint
* Proficient in programming search and reporting algorhythyms in Excel
* Statistical and scientific Analysis
* Lesson planning and execution
* Basic sales and cold calls