

JULIO CAMPERIO

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EDUCATION:

University of Miami, Miami, FL

Candidate for a Master of Science in Aquaculture

August 2018 – Present

Coursework: aquaculture I, legal environment and business, fisheries socioeconomic management, biometrics in marine science, aquaculture II, seafood market and marketing, fish physiology, nutrition

Northeastern University, Boston, MA

May 2016

Bachelor of Arts and Humanities in Spanish

Minors in Marine Studies, Sustainable Business and Latin American & Caribbean Studies

Relevant Coursework: environmental science, geology, biology 1, geographic information systems, environment & society, environmental ethics, sustainability in the business environment

University of the Virgin Islands, Christiansted, St. Croix

April 2015

Coursework in aquaponics, fish culture, agriculture and business enterprises

Sea Education Association, Woods Hole, MA

January-April 2015

SEA Semester - SSV Corwith Cramer scientific expedition through part of the Caribbean

Coursework in oceanography, maritime history and nautical science

American School of Milan, Italy

2007 - 2011

Graduated with a full international baccalaureate diploma

Languages Spoken: Fluent in Italian, English, and Spanish

Citizenship: USA and Italy

RELEVANT EXPERIENCE:

The Nature Conservancy & Future of Fish Feed, Koror, Palau

May – October 2019

Nutrition Research Consultant

- Executed nutrition trial on Golden-lined rabbitfish (*Siganus lineatus*)
- Evaluated performance of novel feeds formulated with plant-based meal
- Visited farms to assess stock growth and communicate with farmers on feed rates
- Collected, organized and prepared final report on results for collaborating parties

University of Miami Experimental Hatchery, Miami, FL

August 2018 - Present

Graduate Research Associate

- Broodstock husbandry of Cobia (*Rachycentron canadum*), Mahi-Mahi (*Coryphaena hippurus*), Nassau Grouper (*Epinephelus striatus*), Red Snapper (*Lutjanus campechanus*), Hogfish (*Lachnolaimus maximus*) and Hiramé (*Paralichthys olivaceus*)
- Carried out juvenile Hiramé (*Paralichthys olivaceus*) nutrition trial
- Evaluation of insect meal as protein source in feeds

Spring Genetics, Miami, FL

May 2018

Farm Technician

- Assisted in harvesting, sexing and eggs collection of Blue Tilapia (*Oreochromis aureus*)
- Carried out daily feeding and biometrics for juvenile and adult animals

University of Miami Miller School of Medicine, Miami, FL

April – November 2018

Research Associate I

- Assisted in rodent husbandry, handling, injections, dissections and perfusions
- Quantified imagery data to assess pancreatic cellular and vascular structure

Olakai Hawai'i, Oahu, HI

May - October 2017

Seaweed Farm Supervisor

- Supervised the harvest, cleaning, quality control, packing and storage of seaweed (*Gracilaria*)
- Built and operated a small-scale broodstock and hatchery system of Tilapia (*Oreochromis*)
- Regularly cleaned, maintained and operated life support systems and culture equipment

Smithsonian Tropical Research Institute, Gamboa, Panama

September 2016 – May 2017

Research Assistant

- Amphibian husbandry and experiment to determine impacts of diet and water composition on the development of Spindly Leg Syndrome in Pirre Harlequin Frog (*Atelopus glyphus*)
- Build worm and black soldier fly composting system to provide additional feed for frogs
- Collected wild frog specimens to display for educational purposes at local museum

Hawaii Institute of Marine Biology, Oahu, HI**April-September 2015***Chief Intern for Research in Coral Cryobiology and Conservation*

- Coral husbandry and conservation research using cryopreservation of Mushroom (*Fungia scutaria*), Cauliflower (*Pocillopora meandrina*), Rice (*Montipora capitata*) and Lobe (*Porites lobate*)
- Husbandry of adult coral and reproduction, and rearing and settlement of larvae
- Cultured crustose coralline algae for larval settlement, and husbandry of grazer fish for algae control

Universidad de Las Palmas de Gran Canaria, Las Palmas, Spain**July- December 2014***Hatchery Intern*

- Husbandry of Almaco Jack (*Seriola rivoliana*) and Meagre (*Argyrosomus regius*)
- Assisted in Nile Tilapia (*Oreochromis niloticus*) nutrition trial and biochemical analysis

New England Aquarium, Boston, MA**January - May 2014***Volunteer in Coral Research*

- Coral husbandry and tissue scarification to determine recovery rate in different water temperatures
- Coral and mucus collection with SCUBA

New England Aquarium, Boston, MA**October – December 2013***Intern in the Cold Marine Department*

- Cold marine fish husbandry and life support maintenance
- Biometrics of endangered Plymouth red-bellied turtle (*Pseudemys rubriventris*)

New England Aquarium, Boston, MA**July – December 2013***Intern in the SCUBA Department of the Giant Ocean Tank*

- Husbandry of 1,800 tropical fish of numerous species in a 200,000-gallon tank
- Extracted selected fish for veterinary attention or transportation
- Carried out construction and maintenance of devices as needed

University of Miami Experimental Hatchery, Miami, FL*Aquaculture Intern***May- June 2013**

- Husbandry of California sea slug (*Aplysia californica*)
- Sorting and packing
- Collected data for experiment on algae growth in different levels of salinity

SKILLS AND QUALIFICATIONS

- **Computer Skills:** Microsoft Excel; Word, PowerPoint; Photoshop; GIS; ImageJ; Prism; R; SketchUp
- **Research Skills:** basic laboratory skills; specialized chemistry skills (titration, 600 °C digester, homogenizer, Kjeldahl and Folch methods, HACH and YSI water quality); specialized reproductive biological skills for coral (hemocytometer, cryopreservation, *Symbiodinium* extraction, solution preparation, water quality, use of liquid nitrogen, PAM, PAR, HOBO Loggers); in vivo digestibility trials; prepare and deliver presentations
- **Husbandry Skills:** managed filtration and life support systems; maintained salt and fresh water tanks; husbandry of coral, tropical, cold marine and freshwater fish, invertebrates and algae; built and operated broodstock, hatchery and nursery systems; observed and assessed behavior, and prevented diseases; live feed culture; prepared feed and medications; targeted surface and underwater feeding; captured, isolated, tagged, transported and re-introduced animals; knowledge of power and non-power tools and plumbing; cleaned thoroughly stations and equipment; packed specimens
- **Field Skills:** SCUBA; motorboat operation; coral and fish identification, collection and shipping; drone pilot