

Caio Della Colleta Vianna

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EDUCATION

Master of Environmental Science and Management (Expected September 2020)

Coastal Marine Resources Management Specialization | Latin American Fisheries Fellow (full tuition award)

Bren School of Environmental Science & Management – University of California, Santa Barbara (UCSB)

Highlighted Coursework: Coastal Marine Management, Applied Marine Ecology, Coastal Marine Ecosystems

Bachelor in Environmental Engineering (December 2017)

School of Engineering of Sao Carlos – University of Sao Paulo, Sao Carlos (EESC – USP)

Award: Brazilian Mobility Scientific Program (\$130,000); full academic recruitment award

MASTER'S GROUP PROJECT

Exploring the Potential for Sustainable Offshore Mariculture in Brazil (4/19–Present)

Role: Project Manager | Client: World Wildlife Fund (WWF)

- Estimated Brazil's potential for developing marine offshore aquaculture for finfish with multidisciplinary team
- Performed extensive literature review of peer-reviewed articles and industry and government reports to compile, synthesize, and analyze scientific information on various mariculture operations to optimize economic model
- Developed maps of the most suitable and economically profitable areas to implement offshore aquaculture in Brazil using analysis of large marine data sets (SST, MPAs, oil rigs, etc.) in RStudio
- Provided client with an interactive online mapping tool and corresponding user guide and 30-page guidance document recommending the most suitable aquaculture sites off Brazil's coast

SEAFOOD & RECIRCULATING AQUACULTURE EXPERIENCE

Ocean Friendly Restaurants (OFR) Fellow (5/19–Present)

Benioff Ocean Initiative, Santa Barbara, CA

- Expanded chapter participation in Surfrider Foundation program that helps restaurants minimize their impacts on the ocean by using sustainable seafood, reducing single-use plastic waste, and conserving water
- Engaged with local seafood suppliers to compile a list of “Best Choice” or “Good Alternative” seafood, as defined by Seafood Watch, to recommend to restaurant owners who participated in the OFR program
- Wrote 500-word OFR Week press release shared via local news publications, created WordPress website, and designed official flyer and graphics for 10 Facebook and Instagram posts in Canva to advertise event to public

Aquaponics Intern (6/17–12/17)

Regional Poles of Technological Development of Agribusiness – APTA, Ribeirao Preto, Brazil

- Designed and built a radial flow settler; installed it into the aquaponics system in order to evaluate the amount of settleable solids that were restrained in the filter and help decrease overall system maintenance
- Built and operated aquaponics trial system cultivating 50 lettuce/m² and 300 *Astyanax bimaculatus*/m³
- Collected water quality data for one month, performing statistical analysis and data visualization on Excel
- Created 10-page document detailing field and water quality testing protocols to restructure daily intern tasks

Marine Recirculating Aquaculture Intern (5/16–9/16)

Virginia Seafood Agricultural Research and Extension Center – Virginia Tech, Hampton, VA

- Controlled operational maintenance of Recirculating Aquaculture System (RAS) of ornamental and commercial fish; administered feed for finfish, daily filter backwashes, and made chemical additions to stabilize the water
- Measured and recorded water quality data both to fulfill scientific trial standards and for internal record-keeping
- Produced and maintained live feeds (rotifers, artemia and copepods) for fish larvae feeding

Aquaculture Research Assistant Intern (1/14–2/14)

Center of Aquaculture, Sao Paulo State University (CAUNESP), Jaboticabal, Brazil

- Built 20 trial tanks; selected and surveyed 200+ Tilapia in collaboration with PhD students to support their thesis
- Helped determine the ideal ratio for each essential amino acids for juvenile Tilapia based on 11 different diets

SKILLS

Computer: Microsoft Office Suite (Excel, PowerPoint, Word); WordPress, basic RStudio

Language: Portuguese (Native); English (Fluent); Spanish (Intermediate)

Presentation: Instructed aquaponics course for 40 students while attending School of Engineering of Sao Carlos