

# CELINE X. DE JONG

celinexdejong@gmail.com | celine.dejong@sjsu.edu  
[celinexdejong.com](http://celinexdejong.com)

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## EDUCATION

**Master of Science**, Marine Biology (*Aug 2021 - current*)  
San Jose State University / Moss Landing Marine Laboratories, Moss Landing, CA

**Bachelor of Science**, Marine Biology (*Sept 2014 - Jun 2018*)  
University of California, Santa Cruz, CA

Dean's Honor Award | Fall 2014, Fall 2015, Fall 2016, Fall 2017

## CERTIFICATES

- AAUS Scientific Scuba Diver (100+ dives)
- SDI Drysuit Diver
- Fill Station Operator (Air & Nitrox)
- PADI Rescue / Nitrox Diver
- SDI Int'l Training VIP Inspector
- CPR / AED / First Aid / & O2 Administration
- NAUI Master Diver
- WA State 2-wheel vehicle endorsement
- CA State Boaters Edu. card holder
- WA State Boaters Edu. card holder

## SKILLS

- Experimental design, implementation, and field logistics planning for marine ecological research
- University-level laboratory expertise and standards training
- Subtidal and intertidal biodiversity surveys
- Scientific communication (written and verbal)
- Travel planning (domestic & international) and event coordination
- High level proficiency in Adobe Photoshop, Adobe Lightroom, Microsoft Office Suite, Google Drive applications
- Public correspondence and education outreach (in-person & virtual)
- SCUBA equipment repair and maintenance
- Larval invertebrate and microalgae cultivation and aquaculture

## PRESENTATIONS



[Western Society of Naturalists](#) | *Nov 5th - 8th, 2020*

de Jong, C.X.; Woolsey, E.S. - Living Room Reefs & Countertop Corals: Open Access Oceans Through 3D Models and Augmented Reality

## RESEARCH EXPERIENCE



[The Hydrous](#), Sausalito, CA

Science Advisor – Ambassador – Social Content Developer | *Jun 2019 - Present*

[Smithsonian Coral Digitization Project](#)

- Oversaw the development of educational materials describing 3D constructions of archived coral samples from Smithsonian's National Museum of Natural History.
  - Collaboration with the Smithsonian's Digitization Project Office and a team of distinguished, international coral researchers on the construction of an interactive, online database for coral specimen information.

- Project utilizes photogrammetry techniques to bring digitized models of 100 coral specimens from reserve collections to researchers and the public, with emphasis on human-centered interface design.
- Models include annotated information about coral samples such as location found and collection date in addition to ecological importance and natural history – all received through user interaction of the model through the use of Google Model Viewer capabilities.
- Advising on pipeline project developments, press release drafts, and discussions for the growing potential of human centered design in the development of ocean solutions addressing anthropogenic impacts on marine ecosystems.
- Temperate marine ecology specialist and outreach representative for the Hydrous in Central California.

UC SANTA CRUZ

[CENSUS \(Central-California Network for Sea Urchin Settlement\)](#), University of California, Santa Cruz, Santa Cruz, CA

Co-Founder - Program Developer | Jan 2018 – Sept 2018

- Co-founded and launched Central California's *first* sea urchin recruitment monitoring initiative through the University of California, Santa Cruz, which aims to establish a long-term, cost-efficient method to evaluate spatial and temporal patterns in settlement among larval individuals of these ecologically important species.
- Major contributor to original recruitment surveying protocol standards and equipment sampling design.
- Weekly field operations in equipment deployment and sample retrieval, including in-lab sampling processing analysis, and sample preservation.
- Facilitated mentoring of undergraduate volunteers on field and lab standard operating procedures (SOPs), data entry methods, and greater impact project objectives.
- Engaged in direct institutional and public outreach efforts for expansion of the monitoring program.
- Production of formal, written work detailing methodology, project scope, and long-term goals.
- Development of graphics used to illustrate initiative results to peers and the public.

UC SANTA CRUZ

[Marine Community Ecology Laboratory](#), University of California, Santa Cruz, Santa Cruz, CA

Undergraduate Research Intern | Jun 2018 – Sept 2018

- Marine lab technician specialized in invertebrate dissection and sample preservation.
- Scientific diver engaged in weekly field operations/data collection along the northern and central coastline of California, including specimen collection and subtidal biodiversity surveys.
- Volunteer scientific diver for [PISCO](#) remote area surveys (Pt. Arena, Big Sur)
- Contributed data to long-term projects aimed at exploring mechanisms of kelp forest resilience and ecosystem dynamics.
- Data organization and processing with extensive use of Google cloud services and additional drive applications.

UC SANTA CRUZ

[Global Change Ecology Lab](#) University of California, Santa Cruz, Santa Cruz, CA

Marine Research Field Technician | Oct 2019 – Jan 2021

- Volunteer scientific diver and field hand, engaging in specimen sampling and collections (via spearfishing, seining).
- Conducting domestic and international, remote area field operations across diverse regions of North America.
  - Locations: Vancouver Island, BC, Canada | South/Central Puget Sound, Washington, USA | San Diego, CA, USA | Laguna Beach, CA, USA | Santa Barbara, CA, USA | Tomales Bay, CA, USA
- Assisting in dissection of tissue samples for genetic analysis and the collection of morphometric data for use in a coast-wide study of evolutionary responses of populations to rapid environmental change.
- Travel logistic planning for field operations in remote regions (scheduling, transportation, accommodation, equipment procurement, etc.)

UC SANTA CRUZ

**BIOE 161 Kelp Forest Ecology (Field Course)**, University of California, Santa Cruz, Santa Cruz, CA

Undergraduate Participant | Sept 2017 – Dec 2017

- Designed and implemented scientific studies on local marine fauna, via SCUBA while working out of Stanford University's Hopkins Marine Station, in Monterey CA
- Co-authored a scientific paper based on timed trials and detailed observations taken throughout the duration of the study (*Variations in Response to Death of a Conspecific in Strongylocentrotus Purpuratus in the Temperate Kelp Forest Ecosystem at Hopkins Marine Station, Monterey Bay, California*)

UC SANTA CRUZ

**BIOE 159 Marine Ecology (Field Course)**, University of California, Santa Cruz, STARESO Marine Research Station / Corsica, France

Undergraduate Participant | Aug 2016 – Nov 2016

- Designed and implemented scientific investigations on local marine fauna, via freediving while based out of an international, marine research institution.
- Co-authored a scientific paper based on timed trials and detailed observations taken during the duration of the study (*Population Density and Size Variation Due to Predation of Paracentrotus lividus and Arbacia lixula Urchins in the Northwestern Mediterranean*).
- Engaged in lectures given by university professors and visiting international scientists.

## ACADEMIC TEACHING EXPERIENCE



**Moss Landing Marine Labs** / SJSU, Moss Landing, CA

Graduate Assistant | Aug 2021 - Dec 2021, Aug 2022 - current

**Marine Science Diving** (MS 105)

- Responsible for assisting the instructor with logistics, academic program, and on-site concerns for MLML scientific dive program course of the Fall academic semester.
- Duties include:
  - Support for the general course program and participants
    - Includes, but not limited to: gear prep, transportation of students and gear, dive safety logistics and planning, etc.
  - Guidance on activities; assistance with risk management; any and all logistics needed or additional assistance as requested by the instructor.
  - In person lecture and in field instruction on Reef Check CA diversity and abundance surveying protocol.

Wildlands Studies, Aptos, CALead Teaching Assistant - Program Logistics Coordinator | Aug 2021, 2022 - Duration: 2 WeeksWildlands Studies Big Sur ecology field course

- Responsible for assisting the instructor with logistics, academic program, and day-to-day on-site concerns for remote, Big Sur coast academic field program.
- Assisted students in field study projects including:
  - Sea otter and seal population distribution assessments
  - Ecological mapping and surveying of key stream and intertidal habitats
  - On-site studies of plant and terrestrial animal communities and biodiversity
- Duties include:
  - Daily support for the general program and participants while on the program
    - Includes, but not limited to: transportation of students in 12 passenger van, preparing and serving meals, delegating and organizing student tasks for camp management, etc.
  - Guidance on activities; assistance with risk management; any and all logistics needed or additional assistance as requested by the instructor.
  - Academic support where knowledge and expertise was appropriate, under authority of the instructor.

Blue Endeavors, Alameda, CA | Seattle, WACurriculum Developer - Instructor | Mar 2020 - Jan 2022

## Marine Series ID

- Actively developing educational materials and lesson plans for BE's remote "Marine Life ID" webinar series'.
  - Presentations are developed using information from species ID lists from partner organizations: [REEF.org](http://REEF.org) and the [Reef Check Foundation](http://Reef Check Foundation).
  - Series aired to date: West Coast (USA) | Philippines (Indo-Pacific) | Tropical Western Atlantic (emphasis on Bonaire & Roatán) | Hawai'i (USA)
  - Host weekly or bi-weekly instruction via Zoom to registered members, providing ~1.5h of species identification content and review.

Seymour Marine Discovery Center, Santa Cruz CAVolunteer School Programs Instructor - Exhibit Guide | Sept 2015 - Jan 2016

- Taught weekly lessons to students of visiting school classes (K-12), through use of innovative props, learning games, and marine species interaction.
- Led interactive guided tours around the center, detailing the natural history of local marine mammals, as well as educating classes and visitors about current research at UCSC's Long Marine Laboratory.

## SELECTED NON-ACADEMIC EXPERIENCE

Moss Landing Marine Labs / SJSU, Moss Landing, CAStudent Assistant | Jan 2022 - CurrentMLML Marine Science Diving Program

- Responsible for assisting the MLML DSO (Diving Safety Officer) with logistics, academic program, and on-site concerns for the MLML / CSU / SJSU marine science dive program.
- Duties include:

- Acting student representative to the DCB (Diving Control Board)
- Support for the general course program and participants
  - Includes, but not limited to: gear repair and maintenance, dive safety logistics and planning, coordination of divers, etc.
- Guidance on activities; assistance with risk management; any and all logistics needed or additional assistance as requested by DSO.



[\(NOAA\) Monterey Bay National Marine Sanctuary Exploration Center](#), Santa Cruz, CA

Program Assistant – Volunteer Coordinator | *May 2018 – Sept 2018*

- Oversaw scheduling of volunteer shifts for 100+ docents while attending to weekly administrative tasks.
- Event planning and organization of volunteer enrichment trips and programs.
- Managed volunteer and center’s website/blogging platform with weekly entries of current and relevant scientific articles and research interpretation for volunteer enrichment.
- Greeted center visitors and provide thoughtful guidance and information regarding center modules about the significance of the Monterey Bay National Marine Sanctuary.
- Educated guests about current threats to the sanctuary and important ways we as global citizens can help protect our coastal ecosystems, both locally and worldwide.
- Opened/closed facility and worked on troubleshooting center exhibit equipment and technology maintenance upkeep.



[Blue Endeavors](#), Alameda, CA | Seattle, WA

Social Media Team Lead | *July 2021 – Jan 2022*

Social Media & Content Creation

- Team lead for digital content development and social planning
  - Coordinate post scheduling and collaborative team meetings
  - Delegate content strategy for development among team members
  - Designed branded graphics (still & animated) for IG stories, IG highlights, announcements, icons, etc.
  - Registered brand channels for GIPHY, linktr.ee, & Hootsuite



[Silent World Diving Systems, Inc.](#), Bellevue, WA

Retail Sales Representative | *May 2019 – May 2020*

- Employed in dive shop operations including, but not limited to:
  - Assistance of and engagement with patrons (private, government, corporate) on sales floor and via digital correspondence (phone, email).
  - Administrative record keeping and cataloging of technical documents, business transactions, student information files, medical forms, travel waivers, rental equipment, etc.
  - Digitization and maintenance of employee, class course, and business event scheduling
  - Technical dive equipment repairs and maintenance (compressed air regulators, buoyancy compensation devices, compressed air cylinders, exposure suits, dive accessories).
  - Proficiency in gas compressor operations and air and Nitrox cylinder filling.