

# Jenny Hoo

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## Education:

- California Polytechnic State University, San Luis Obispo, CA (*expected graduation*) June 2014
    - Bachelor of Science in Biological Sciences, Concentration in Marine Biology and Fisheries
  - University of Costa Rica, San Ramon, Costa Rica Fall Semester
    - Semester abroad in Costa Rica, studied Biology and Spanish
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## Marine Biology Experience:

- Scripps Photobiology Group, Dr. Greg Mitchell June- August 2013  
Scripps Institute of Oceanography
    - Studied light, CO<sub>2</sub>, and salinity affects on strains of *Dunaliella* algae species.
    - Analyzed the most effective ways to concentrate algae to for the largest biomass yield with the goal to use the algae for alternative energy needs.
    - TPTZ carbohydrate analysis using 3 different preparation techniques to comparing carbohydrate concentration in each sample.
    - Presented to the lab group on findings and am currently working with the Mitchell lab on a paper
  - Adams Lab, Cal Poly March 2013-Current
    - Study effects of and defenses against ultraviolet radiation in embryos of marine invertebrates
    - Focus on UVB effects on sea urchin species and were analyzed in the sea urchins maternal effects, protein function, behavior, and carbohydrate content.
    - Effects of toxins on development of marine invertebrates
    - Western blotting, agarose gels,
  - Puntarenas Marine Park, Puntarenas, Costa Rica August 2012 –December 2012
    - Worked closely with University of Costa Rica professor, Dr. Marco Zumbado, to study saltwater aquariums and adaptation of newly captured endangered fish to their new environment.
    - Biweekly water testing
    - Maintenance and cleaning of sea turtles
    - Internship conducted in Spanish
  - The Otter Project April- August 2012
    - Weekly surveys of marine protected areas on the San Luis Obispo Coast.
    - Monitored for compliance with the MPA regulations took data of coastline diversity and to help scientists understand how these MPA's are being used.
    - Recorded and uploaded data to an online database
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## Leadership and Activities:

- WSN Conference November 2013
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  - COSIA –Communicating Ocean Science to Informal Audiences January 2013-March 2013
    - A course offered at Cal Poly to increase public outreach from scientists to the public.
    - Weekly outreach events held on campus or in museums to increase contact between marine biologists and all ages of the public.
    - Focused on inquiry based teaching methods and learning theory. Constant practice communicating scientific information and mentoring in how to improve scientific presentation.
  - Sea Turtle Rescue, Guanacaste, Costa Rica September 2012
    - Mentored by Costa Rican scientists in the government agency SINAC studying nesting patterns of black sea turtles. Data presented to the Costa Rican government to prevent hotel construction on nesting grounds.
    - In charge of cohesion of data between multiple groups, all work done in Spanish.
  - Cuadras Mis Nietas, Equine Therapy, Costa Rica September 2012 – December 2012
    - Worked one on one with special needs children on a weekly basis.
    - Horse riding and physical therapy
    - All work done in Spanish.
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