

# DELANEY M. NOLIN

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## EDUCATION

**University of Southern California, Dr. Jed Fuhrman's Laboratory** Los Angeles, CA  
PhD Student, Marine Biology & Biological Oceanography

**Occidental College (2014-2017)**, Los Angeles, CA  
B.A. *cum laude*, Biology (with distinction), Marine Biology Emphasis  
Minors: Neuroscience & English GPA 3.66

**University of Vermont (2013-2014)**, Burlington, VT  
Biology & Neuroscience GPA 3.76

## HONORS AND AWARDS

Occidental College Dean's List	Fall 2014, Fall 2015-Spring 2017
University of Vermont Dean's List	Fall 2013-Spring 2014
Dean Cromwell Award, Occidental Athletics	Spring 2017 & 2018
NCAA Woman of the Year Finalist	Summer 2017

## PRESENTATIONS/PUBLICATIONS

Nolin, D. 2017. Ecosystem Restoration of New England Eelgrass Estuaries.	Spring 2017
Occidental College Senior Comprehensive Seminar	

## RESEARCH EXPERIENCE

**Occidental College, Vantuna Research Group; Los Angeles, CA** Jan 2015-May 2017  
Research Assistant; Director: Dr. Daniel Pondella

- Worked on several long-term environmental monitoring projects including infaunal analysis, fish surveys, plankton studies, water quality assessment, and data processing using R and Excel
  - Used various fish sampling techniques (otter trawls, beach seines, beam trawls, etc.) to evaluate species diversity and size (standard length and weight) of fish at various sites along the Southern California Bight and San Diego Bay for reports assessing the impacts of El Niño on fisheries inventory (Williams et al. 2016)
- As a senior lab member, oriented and trained new research technicians
- Revised Vantuna Research Group's website, updating content and layout

**Occidental College, Microbial Symbiosis Laboratory; Los Angeles, CA** Spring 2017  
Research Student; Professor: Dr. Shana Goffredi

- Conducted a semi-independent project on the microbial symbionts of the marine leech *Branchellion* sp., which was identified through DNA extraction/purification and PCR; analyzed data utilizing GenBank

- Identified and characterized previously unknown symbionts, most of which were *Vibrio* species, using a variety of methods including RNA extraction/purification, cell culture, molecular cloning, ELISA, PCR, RFLP, dissection, genome sequencing, plasmid amplification, and FISH
- Worked with lab team to collect data on the symbionts of several different marine blood-feeding parasites for new project

**Occidental College, Neurobiology Laboratory; Los Angeles, CA**

Fall 2017

Research Student; Professor: Dr. Lucie Suchomelova

- Analyzed the behavioral response of a rodent model of Parkinson's disease (6-OHDA injection in the left side of the brain) to amphetamine and apomorphine injections to understand the role of the basal ganglia in PD
- Assessed the effects of calcium concentrations, calcium voltage-gated channels, and membrane depolarization on the release of GABA and glutamate from vesicles in conditionally immortalized cortical mouse neurons
- Used immunofluorescent staining for parvalbumin (PVA) to understand the role of damaged GABAergic interneuron networks in a model for epilepsy

**Universidad de San Francisco De Quito, Ecuador**

Fall 2015

Research Student; Various USFQ Professors

- Conducted independent study on the relationship between damselfish body length and algal farm size
- Used ArcGIS to track shark species migration
- Analyzed zonation patterns of sessile species at various marine sites on/near San Cristóbal
- Performed short-term monitoring of sea lion feeding and resting patterns in response to El Niño

**SKILLS & CERTIFICATIONS**

- Proficient in basic lab techniques including cell culture/maintenance, PCR, immunohistochemistry, DNA extraction/purification, sterile technique, and data processing
- AAUS Scientific Diver (Southern California Marine Institute, San Pedro, CA)
- Experienced in Microsoft Office Suite, Google Suite, website building, Adobe suite, ImageJ and R; familiar with ArcGIS and HTML
- Familiar with small boating techniques

**INTERESTS & ACTIVITIES**

- US Paralympics Track & Field 200m T35 National Champion 2017, T35 800m World Record Holder
- Occidental College Varsity Track & Field Team (2014-2017)
- Walk to Defeat ALS Volunteer