



# ROBERT DELLINGER

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## EDUCATION

California State  
University, Northridge  
2021 - Current

### Masters of Science in Biology (M.S.)

- GPA: 3.75 | Advisor: Dr. Nyssa Silbiger
- Thesis: *Organisms as the Subjects and Objects of Ecological Change: A Study Regarding Intertidal Organisms*

University of  
California, Davis  
2017 - 2021

### Bachelor of Arts & Science, Marine & Coastal Science (B.S.) & International Relations (B.A.)

- GPA: 3.18 | Departmental Citation
- Marine & Coastal Science Focus: Oceans and the Earth System
- International Relations Focus: Global Environment & Natural Resources

## PROFESSIONAL EXPERIENCE

CSU Northridge,  
Department of Biology  
Aug 2021 - Current

### Graduate Student Researcher, Silbiger Lab

Supervisor: Dr. Nyssa Silbiger

- Conducted research on the interactive effects of ocean acidification and warming on physiological rates of an abundant intertidal herbivore, *Tegula funebris*, employing a thermal performance curve approach.
- Collaborated on field and laboratory-based research projects examining ecological and physiological responses of marine organisms to changing environments, within the context of natural variability; applied various physiological and biogeochemistry protocols to support research objectives.
- Mentored and trained undergraduate student researchers for engagement in experimental research and preparation for graduate studies.

National Science  
Foundation & UC Davis  
Jun 2022 - Jun 2023

### Sustainable Oceans NSF Research Traineeship

- Evaluated complex marine policy issues through multifaceted social and environmental lenses in interdisciplinary graduate courses and discussions with ocean scientists, indigenous tribal leaders, and policymakers.
- Participated in and delivered presentations at research symposia and immersive discussion forums, focusing on climate change and marine ecosystem remediation, in collaboration with relevant stakeholders.

CSU Northridge,  
Department of Biology  
Aug 2021 - Jun 2022

### Teaching Associate & Graduate Assistant

- Instructed introductory biology courses and labs, which included curriculum development, leading discussions, and evaluating student assignments to enhance comprehension of fundamental biology and ecology concepts.
- Provided support as a graduate assistant for ecology courses, assisting with grading, course materials preparation, and student support.
- Tutored undergraduates in ecology, marine biology, and general biology.

NOAA Fisheries, U.S.  
Department of  
Commerce  
Jun 2021 - Aug 2021

### **National Oceanographic & Atmospheric Association Internship**

Supervisors: Drs. Ann Petersen, Tom Noji, and Chris Chambers

- Utilized ecotoxicological methodologies to assess the impact of industrial contaminants on *Morone americana*, a key fish species in an urban coastal New Jersey estuary ecosystem.
- Contributed to a National Resource Damage Assessment, revealing conclusive histological evidence of injury, and providing crucial insights for environmental justice efforts.

Eco-Alpha  
Environmental &  
Engineering Services  
Jun 2020 - Aug 2021

### **Senior Environmental Technician**

Supervisor: Dr. Melanie Okoro

- Managed procedural development, equipment procurement, and technician training for federal and state water quality compliance monitoring programs.
- Compiled technical reports and ensured adherence to pertinent environmental regulations for client activities. Additionally, handled document formatting and drafted responses for statewide bid and contract requests.

UC Davis, Department of  
Evolution and Ecology  
Sep 2019 - Aug 2021

### **Undergraduate Researcher, Bay Lab**

Supervisor: Dr. Rachael Bay

- Conducted a meta-analysis to assess the evolutionary, ecological, and anthropogenic drivers of the genetic diversity of reef-building corals, globally.
- Attended and facilitated weekly meetings to discuss current topics in marine ecology including, but not limited to molecular, genomic, ecological, and social techniques.

UC Davis, Department of  
Geobiology and  
Paleobiology  
Jul 2019 - Sep 2019

### **Undergraduate Researcher, Gold Lab**

Supervisor: Dr. David Gold

- Measured rates of polyp regeneration and colonization of moon jellyfish (*Aurelia aurita*) under varying oxygen conditions (2mg/L and 8mg/L) to assess cell proliferative capability and stress response under hypoxic conditions.
- Ensured optimal experimental conditions by maintaining live organisms and monitoring water quality parameters daily (dissolved oxygen, temperature, and nitrogen gas diffusion).

Bodega Marine  
Laboratory  
Jun 2019 - Jul 2019

### **Independent Undergraduate Researcher**

Supervisor: BML Director Dr. Gary Cherr

- Designed and executed a feeding preference experiment to investigate whether urchin larvae (*Lytechinus pictus*), indiscriminate feeders, consumed more polystyrene microplastics (<5mm) or algae, while simultaneously quantifying impacts on feeding capacities.
- Performed statistical analysis of internal particle distributions, which revealed that *L. pictus* larvae consistently ingested more microplastics than algae across feeding trials, with no preference for microplastic size.

Amigos del Lago NGO,  
Lake Atitlan, Guatemala  
Jun 2017 - Jul 2017

### **Undergraduate Researcher, Summer Abroad**

Supervisor: Dr. Eliska Rejmankova

- Conducted biogeochemical sampling of Lake Atitlán, compiling data on pelagic processes, biogeochemical gradients, and depth profiles.
- Evaluated species diversity and water quality to gauge the effectiveness of native vegetation in preventing eutrophication and enhancing water quality.
- Communicated results to local and government stakeholders in Spanish, with an emphasis on bridging the gap between ecological and social concerns in Lake Atitlán, Guatemala.

UC Davis,  
Undergraduate  
Admissions  
Dec 2017 - Jun 2021

### **Campus Ambassador**

Supervisor: Jessica Acluna

- Serving as a representative of the university at campus events and conferences. Leading and engaging with large groups of prospective students and special visitors through verbal elocution.

## **LEADERSHIP & SERVICE**

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Queer Sol Collective  
(NGO)  
Sep 2023 - Current

### **Board of Directors, Board Member**

- Queer and Indigenous-led initiative (2SLGBTQIA+) designed to ignite the emotional connection between the self and the land, piecing back together the true understanding of what nature is, through, art, and Queer embodiment.

CSU Northridge,  
Department of Biology  
Sep 2022 - Jun 2023

### **Marine Biology Graduate Student Association, President**

- Led readings on seminal ecology and marine biology papers, fostering an environment of critical thinking and in-depth discussions among members.
- Organized club activities, grant writing workshops, and outreach events.

Noname Book Club  
Headquarters  
Sep 2021 - Current

### **Book Club, Volunteer**

- Committed to distributing knowledge and promoting awareness on critical topics, including race, gender, sexuality, class, disability, and environmental issues, both within and beyond prison walls.

UC Davis, Department of  
Earth and Planetary  
Sciences  
Jun 2020 - Jun 2021

### **Anti-Racism Committee, Member**

- Proposed actions to curtail institutional racism that arises out of department structures, curriculum, and culture.
- Worked with students, staff, postdoctoral scholars, and faculty to make substantial changes to the department.

Associated Students of  
the University of  
California, Davis  
Sep 2019 - Jun 2021

### **Gender and Sexuality Commission, Commissioner**

- Reviewed and formulated recommendations for gender, sexuality, and sexual assault programs at UC Davis and across the UC system.
- Made legislative decisions on issues including domestic violence, gender equality, and queer/trans concerns.

Associated Students of  
the University of  
California, Davis  
Sep 2017 - Jun 2019

### **Ethnic and Cultural Affairs Commission, Commissioner**

- Establishing liaisons and achieving rapport with on-campus and off-campus bodies of historically marginalized groups who face barriers in terms of institutionalized and systemic oppression.
- Created new policies, programs, and legislation affecting said communities and their quality of life at the University.

## **TEACHING EXPERIENCE**

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### **Teaching Associateships**

2022 - Teaching Associate, Introductory Biology, Lab, Undergraduate, CSUN

2021 - Teaching Associate, General Biology, Lab, Undergraduate, CSUN

### **Graduate Assistantships**

2022 - Graduate Assistant, Life in the Sea, Lecture, Undergraduate, CSUN

2022 - Graduate Assistant, Ecology and People, Lecture, Undergraduate, CSUN

## AWARDS & DISTINCTIONS

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### **Center for Diverse Leadership in Science Fellowship, 2023-2024, UCLA, \$4000**

- Awarded to diverse leaders in science engaging in significant scholastic endeavors, community-building, and creating a positive impact in our communities.

### **NSF Graduate Research Fellowship Program, 2022-2025, National Science Foundation, \$138,000**

- Highly competitive and prestigious fellowship awarded to recognize and support graduate students early in their careers who have demonstrated potential for significant achievements in science, technology, mathematics, and engineering.

### **Center for Diverse Leadership in Science Fellowship, 2022-2023, UCLA, \$1000**

### **Sustainable Oceans Scholar Program, 2022-2023, National Science Foundation National Research Traineeship, \$1000**

- Sustainable Oceans: from Policy to Science to Decisions training program combines traditional graduate training in core disciplines and interdisciplinary courses on marine science and policy with immersion into the policy process and politics surrounding ecosystem-based management.

### **Department Citation, 2021, UC Davis Department of Earth and Planetary Sciences**

- This prestigious award is presented each year to some of the top graduates from each department. Given to students with excellent academic achievement and substantial contributions to the Department.

### **NSF GRFP Honorable Mention, 2021, National Science Foundation**

### **Geology and Marine and Coastal Science (GeMS) Scholarship, 2020-2021, UC Davis Department of Earth and Planetary Sciences, \$8000**

- Award is made possible by the National Science Foundation Scholarships in STEM (S-STEM) program and given to students who show promise as a Geology or Marine and Coastal Science major.

### **Bodega Marine Laboratory Ambassador Award, 2019, UC Davis Coastal and Marine Sciences Institute, \$3000**

- Awarded to students that illustrate academic excellence and trajectory in their fields, and provides funding for summer research and coursework at Bodega Marine Laboratory.

### **Ann E. Pitzer Travel Award, 2018, UC Davis Education Abroad Center, \$750**

## CONFERENCES & COLLOQUIA

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**Dellinger, R.J.,** Fields, J.B., Silbiger, N.J., 2023. Facing Physiological Constraints: The Response of an Intertidal Gastropod (*Tegula funebris*) to the Interactive Effects of Ocean Acidification and Warming. Sustainable Oceans Research Symposium. University of California, Davis.

**Dellinger, R.J.,** Fields, J.B., Silbiger, N.J., 2023. Facing Physiological Constraints: The Response of an Intertidal Gastropod (*Tegula funebris*) to the Interactive Effects of Ocean Acidification and Warming. CSUNposium. CSUN.

**Dellinger, R.J.,** Fields, J.B., Silbiger, N.J., 2022. Facing Physiological Constraints: The Response of an Intertidal Gastropod (*Tegula funebris*) to the Interactive Effects of Ocean Acidification and Warming. Western Society of Naturalists 104th Annual Conference.

**Dellinger, R.J., et al.** 2022. Roundtable Participant. Opportunities and Actions in Ocean Science and Technology. White House Subcommittee on Ocean Science and Technology.

**Dellinger, R.J., et al. 2022.** Roundtable Participant. Advancing Diversity, Equity, and Inclusion in California's Ocean Sciences. Ocean Science Trust.

**Dellinger, R.J.,** 2021. Presentation. Does Industrial Contamination in Urban Coastal Rivers Cause Injury to Wild Fish? Quantifying Injury from Contamination to a Key Member of the Estuarine Ecosystem, the White Perch. National Oceanographic and Atmospheric Administration Annual Internship Conference.

Bay, R.A., **Dellinger, R.J.,** Flores, J.A., Rumberger, C.A., 2021. Presentation. Assessing the Drivers of Genetic Diversity on Coral Reefs. UC Davis Undergraduate Research Conference.

Bay, R.A., **Dellinger, R.J.,** Rumberger, C.A., 2020. Presentation. Assessing the Drivers of Genetic Diversity on Coral Reefs. 101st Western Society of Naturalists Conference.

**Dellinger, R.J.,** Warneke, A. 2020. Designing and Effective Science Website Workshop. 101st Western Society of Naturalists Conference.

Summer, D.Y., **Dellinger, R.J.,** 2020. Curtailing Institutional Racism in STEM Departments. Geological Society of America Annual Meeting.

**Dellinger, R.J.,** 2019. Patterns & Consequences of Microplastic Ingestion by Larval Stages of The White Urchin (*Lytechinus pictus*). Bodega Marine Laboratory Symposium, Bodega Bay, CA.

## SKILLS

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**Language Skills:** Bilingual (English and Spanish). **Computer Skills:** R (Programming Language), LaTeX (Programming Language), Programming (R Studio), Github, statistical analysis (Excel, R, JMP), Bioinformatic tools (BLAST), image analysis (ImageJ), photography (Adobe Photoshop), design (Adobe Illustrator), web design (CSS and HTML/ Adobe Dreamweaver), Microsoft Office, Google Workplace. **Research Skills:** Boating safety courses/license, environmental compliance, environmental policy, environmental data analysis, protocol development, experimental design, environmental and aquatic data sampling, water chemistry, microscopy, confocal microscopy, micro-pipetting, serial dilutions, titrations, mass spectrophotometry, animal husbandry, cleanliness/organizational skills, report writing, policy analysis, teaching, public speaking, science communication.

## PROFESSIONAL MEMBERSHIP

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Society for Advancement of Chicanos/Hispanics & Native Americans in Science (SACNAS)  
Association for the Sciences of Limnology and Oceanography (ASLO)  
Western Society of Naturalists (WSN)

## REFERENCES

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Dr. Nyssa Silbiger, CSU Northridge, [Phone: 818-677-4427] [nyssa.silbiger@csun.edu]  
Department of Biology.

Dr. Aradhna Tripathi, UCLA, [Phone: 626-376-1308] [atripathi@g.ucla.edu]  
Department of Atmospheric and Oceanic Sciences

Dr. Rachael Bay, UC Davis, [Phone: 530-754-1439] [rbay@ucdavis.edu]  
Department of Evolution and Ecology.

Dr. Tessa Hill, UC Davis, [Phone: 707-875-1910] [tmhill@ucdavis.edu]  
Department of Earth and Planetary Science.

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