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Tena S. Dhayalan

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Education

M.S. in Biology with Distinction, California State University, Northridge 2023–September 2025 *Advisor: Dr. Nyssa Silbiger*

GPA: 3.88

Thesis: Effects of ocean acidification and warming on predation of foundation species in the California rocky intertidal zone

B.S. Animal Biology magna cum laude, University of California, Davis

2021

Cell: 858-527-5271

GPA: 3.91

Undergraduate thesis: Determining the safety of alligator weed biocontrol agents for Delta Smelt *Hypomesus transpacificus* and Rainbow Trout *Oncorhynchus mykiss*

Publications

Dhayalan, T.S., Tran, F.D., Hung, T.C., Lewis, L.S., Senegal, T.J., Mora, V., Teh, S.J., Hammock, B.G. 2023. Liver glycogen as a sensitive measure of food limitation in Delta Smelt. *Estuaries and Coasts*. https://doi.org/10.1007/s12237-023-01282-y.

Research Experience

Research Assistant | 20h/week | Dr. Nyssa Silbiger | CSU Northridge

2023-2025

- Conducted three month-long mesocosm experiments manipulating pH and temperature
- Determined photosynthetic and respiration rates of marine algae and invertebrates
- Deployed intertidal subsurface automated samplers for *in situ* seawater collection
- Titrations for total alkalinity following Dickson SOP 3b

Lab Assistant III | Full time | Dr. Bruce Hammock | UC Davis

2022-2023

- Developed and optimized a small-scale larval delta smelt culture to maximize survival
- Managed cultures of artemia, rotifers, and microalgae
- Genetic identification of wild-caught delta smelt and wakasagi
- Optimized an in-house method of determining glycogen levels in fish tissue

Undergraduate Research Assistant | 20 h/week | Dr. Swee Teh | UC Davis

2020-2021

• Culturing of Japanese medaka fish, algae, rotifers, and artemia

Undergraduate Research Student | Dr. Eric Sanford | UC Davis

2021

• Project: On the symbiotic relationship between the bat star *Patiria miniata* and its Hesnoid polychaete *Ophiodromis pugettensis*

Undergraduate Research Assistant | 12 h/week | Dr. Danika Bannasch | UC Davis 2018–2020

• Vertebrate blood DNA extractions, PCR, and gel electrophoresis

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Awards & Honors

 Honorable Mention NSF Graduate Research Fellowship Program Graduate Fellowship for Outstanding Research Promise CSU Northridge \$5,000 Hugo and Irma Oppenheimer Student Award Endowment CSU Northridge \$200 Donald E. Bianchi Outstanding Graduate Teaching Award CSU Northridge \$400 Honorable Mention UC Davis Research Rockstars \$150 Bodega Marine Laboratory Ambassador Scholarship UC Davis \$3,200 James E. Casey Scholarship UC Davis \$7,500 	2024 2024 2024 2024 2022 2021 2-2021
Second Lieutenant Warren R. Salz Memorial Scholarship UC Davis \$750	2018
Research Support	
Memorial Thesis Award CSUN Association of Retired Faculty \$2,500	2024
Thesis Support CSU Northridge \$700	2023
Teaching Experience	
11 th Grade Marine Biology Teacher PUC Community Charter Early High School 2024	-2025

Developed curriculum and lesson plans following Next Generation Science Standards

- Developed curriculum and lesson plans following Next Generation Science Standards and Ocean Literacy Principles.
- Created weekly laboratory experiences to supplement understanding of scientific principles.
- Environmental Club advisor coordinating recycling pickups, community gardening, and field trips for 25 students.

Graduate Assistant | California State University, Northridge

Fall 2023

- Coordinated field trips for a class of 30 undergraduate biology students to go trawling, hook and line fishing, and to explore the Natural History Museum's ichthyology collection for the pelagic organisms class.
- Supervised weekly laboratory classes where students completed lab manual entries of pelagic organisms.

Teaching Assistant | California State University, Northridge

Spring 2024

• Lectured and supervised laboratories for the introductory biological principles lab for undergraduate biology majors. Included spectroscopy, plant physiology, animal physiology, and genetics.

Professional Service

Climate Resilience Fellow UCLA Center for Diverse Leadership in Science	2024
Early Career Fellow UCLA Center for Diverse Leadership in Science	2024
Treasurer of the Marine Biology Graduate Student Association CSU Northridge	2023-2024

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Presentations (* = denotes presenting author)

Dhayalan, T.S.*, Silbiger, N.J. 2025. Mussel up for climate change! Effects of acidification and warming on the California mussel and a carnivorous whelk. CSUNposium, Northridge, California [talk].

- **Dhayalan, T.S.***, Abbott, M., Silbiger, N.J. 2024. Effects of acidification and warming on California rocky intertidal species. Ecological Society of America, Long Beach, California [poster].
- **Dhayalan, T.S.***, Abbott, M., Silbiger, N.J. 2024. HOT TO MOW! Differential effects of warming and acidification on an intertidal grazer and a macroalgae. Western Society of Naturalists, Portland, Oregon [talk].
- **Dhayalan, T.S.***, Abbott, M., Silbiger, N.J. 2024. Effects of acidification and warming on rockweeds and an herbivore. CSUNposium, Northridge, California [poster].
- **Dhayalan, T.S.***, Tran, F.D., Hung, T.C., Lewis, L.S., Senegal, T.J., Mora, V., Teh, S.J., Hammock, B.G. 2023. Liver glycogen as a sensitive measure of food limitation in Delta Smelt. Interagency Ecological Program, Sacramento, California [poster]; Western Society of Naturalists, Monterey, California [poster].
- Abbott, M.*, Huson, V., **Dhayalan, T.S.,** Fajardo, C., Dellinger, R., Reed, K., Silbiger, N.J. 2023. Intertidal foundation species alter seawater biogeochemistry at high tide. Western Society of Naturalists, Monterey, California [poster].
- Huynh, K.*, Hammock, B.G., **Dhayalan, T.S.**, Teh, S.J. 2023. Improving culture technique of a small sensitive endangered fish species. Western Society of Naturalists, Monterey, California [poster].
- Huynh, K.*, **Dhayalan, T.S.**, Ma Li, C., Stillway, M., Teh, S.J., Hung, T.C., Hammock, B.G. 2023. The effect of food limitation and salinity on the survival and growth of Delta Smelt larvae. Interagency Ecological Program, Sacramento, California [poster].