Emily Nazario

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https://emilynazario.github.io/

Academic History

2020 – Present **Ph.D., University of California, Santa Cruz** Ecology and Evolutionary Biology.
Designated Emphasis: *Coastal Science and Policy*
Thesis Title: *From metabolic rates to managed areas: interdisciplinary insights to inform marine predator conservation*

2015 – 2018 **B.S., University of California, Santa Cruz** Ecology and Evolutionary Biology.
Undergraduate Thesis: *Baleen whale inhalation variability revealed using animal-borne video tags*.

Awards, Grants, Honors

2025 Rebecca and Steve Sooy Graduate Fellowship in Marine Mammals
NSF Non-Academic Research Internships for Graduate Students (INTERN) Program
2024 Activating Innovative Graduate Research Award
ARCS Fellowship
Kathryn D. Sullivan Impact Award in Earth and Marine Sciences
Koret Scholar Mentoring Award
Physical and Biological Sciences Department Dean Travel Award
2023 Rebecca and Steve Sooy Graduate Fellowship in Marine Mammals
NASA Earth Science Applications: Ecological Conservation Impact Assessment Research Funding Proposal (team member on application)
Fisheries Collaborative Program's Fisheries Opportunity Fund
Koret Undergraduate Research Scholarship (team member on application)
Dr. Earl H. Myers and Ethel M. Myers Oceanographic and Marine Biology Trust Grant
Institute of Marine Sciences Student Research and Education Award
2021 NSF Graduate Research Fellowship Program
2018 University of California Education Abroad Program (UCEAP) Undergraduate Research Award
2017 UCEAP Promise Award Scholarship
2016-2018 Dean's List

Research Experience

2023 – Present **Odontocete thermoregulation research assistant**
Santa Cruz, CA

Biologging data accessibility research assistant
Santa Cruz, CA

2020 – Present **Integrative carnivore ecophysiology Ph.D. student**
Williams Lab
University of California, Santa Cruz

Research Experience (continued)

2023 – 2025 **Graduate student researcher**
NOAA Southwest Fisheries Science Center
Santa Cruz, CA

2020 – 2021 **Marine mammal stranding graduate student researcher**
Santa Cruz, CA

2018 – 2020 **Bio-telemetry and behavioral ecology undergraduate research technician**
Friedlaender Lab
University of California, Santa Cruz

2016 – 2019 **The Marine Mammal Center volunteer**
Moss Landing, CA

2018 **USGS southern sea otter population monitoring intern**
Monterey, CA

Mentoring Experience

2021 – Present **Undergraduate (and beyond) research mentor**
Santa Cruz, CA
Student name, quarters involved: Sam Bartosik-Velez, Fall 2023 - Spring 2025
Student name, quarters involved: Merceline San Luis, Winter 2022 - Spring 2025
Student name, quarters involved: Sarah Kramer, Spring 2024 - Winter 2025
Student name, quarters involved: Josh Allyn, Fall 2023 - Fall 2024
Student name, quarters involved: Audrey Sarin, Fall 2022 - Winter 2023

2023 – 2025 **Undergraduate thesis advisor**
Santa Cruz, CA
Student name: Sam Bartosik-Velez
Thesis title: Comparing Thermoregulatory Strategies Between Atlantic Bottlenose Dolphins *(Tursiops truncatus)* and Beluga Whales *(Delphinapterus leucas)*

2022 – 2024 **Peer-To-Peer Mentorship Program**
Santa Cruz, CA

2023 **Doris Duke Conservation Scholar Program**
Santa Cruz, CA
Student name: Fanny Sanchez Villarreal
Project duration: April 2023 - August 2023

2022 **More Active Girls In Computing**
Remote

Public Service

2020 – 2023 **Santa Cruz Monterey Bay Area Subunit of the American Fisheries Society** President and Public Relations Chair
Santa Cruz, CA

2023 **Spatial data analysis workshop** Co-organizer
Santa Cruz, CA

Presentations

Talks

1. **E. Nazario**, N. Lezama-Ochoa, M. Czapanskiy, H. Dewar, A. Preti, A. Fredston, M. Pinsky, M. P. Buil, and E. Hazen, "Dissolved oxygen and metabolic parameters improve species distribution models for a marine predator," Gordon Research Symposium: The Integration of Conservation in Movement Ecology, Ventura, California, 2025.
2. **E. Nazario**, M. San Luis, E. Hazen, A. Rhodes, N. Lezama-Ochoa, R. Seary, M. Cronin, and K. Seto, "Bridges and barriers to dynamic ocean management: Perspectives from scientists, managers, and marine resource users," PICES, Yokohama, Japan, 2025.
3. R. Seary, **E. Nazario**, H. Bailey, A. Sell, E. Hazen, S. Bograd, H. Welch, B. Muhling, D. Lawson, and A. Rhodes, "Assessing the efficacy and applicability of dynamic ocean management for the us west coast," NASA Biodiversity and Ecoloical Conservation Team Meeting, Washington, D.C., 2025.
4. **E. Nazario**, D. Christen, K. Flammer, K. Ford, T. Kendall, B. Tom, and T. Williams, "Physiological limits in the world's extreme divers: How marine mammals manage carbon dioxide accumulation and its effects on dive recovery," Biennial Meeting on the Biology of Marine Mammals, Perth, Australia, 2024.
5. **E. C. Nazario**, D. E. Cade, K. Bierlich, M. F. Czapanskiy, J. A. Goldbogen, S. R. Kahane-Rapport, J. M. van der Hoop, M. T. San Luis, and A. S. Friedlaender, "Measuring nares expansion reveals variability in breath area and duration," The World Marine Mammal Conference, Barcelona, Spain, 2019.

Posters

1. **E. Nazario**, N. Lezama-Ochoa, M. Czapanskiy, H. Dewar, A. Preti, A. Fredston, M. Pinsky, M. P. Buil, and E. Hazen, "Physiological and environmental drivers of immature shortfin mako shark distributions in the southern california bight ecoregion," Bio-Logging Science Symposium, Tokyo, Japan, 2024.
2. **E. Nazario**, D. Christen, K. Flammer, K. Ford, T. Kendall, B. Tom, and T. Williams, "Physiological limits in the world's extreme divers: How marine mammals manage co2 accumulation and its effects on dive recovery," American Physiology Summit, Long Beach, California, 2023. URL: https://journals.physiology.org/doi/abs/10.1152/physiol.2023.38.S1.5728622.

Guest speaking events

1. **E. Nazario**, "Methods for investigating marine predator physiology and movement ecology," Comparative Anatomy, Hendrix College, Conway, Arkansas (Remote), 2024.

Publications

Articles

1. A. A. Ellis, J. N. Beck, E. A. Howard, A. L. Rabearisoa, **E. C. Nazario**, L. M. Alissa, S. Barasi, R. S. Beltran, G. Bernardi, K. Bernier, M. R. Cronin, *et al.*, "Coalition-building for labor actions in life sciences departments: Lessons from the largest academic strike in history," *BioScience*, biae123, 2024. URL: https://academic.oup.com/bioscience/article/75/2/152/7922959.
2. J. S. John, D. R. Christen, K. L. Flammer, T. L. Kendall, **E. C. Nazario**, B. P. Richter, V. Gill, and T. M. Williams, "Conservation energetics of beluga whales: Using resting and swimming metabolism to understand threats to an endangered population," *Journal of Experimental Biology*, vol. 227, no. 5, 2024. URL: https://journals.biologists.com/jeb/article/227/5/jeb246899/344093.
3. K. E. Dale, L. C. Goetz, K. M. Kobayashi, M. R. Lane, and **E. C. Nazario**, "Diverse voices in fisheries science: Lessons learned from an insightful seminar series," *Fisheries*, vol. 47, no. 6, pp. 241–244, 2022. URL: https://academic.oup.com/fisheries/article/47/6/241/7816655.

4. **E. C. Nazario**, D. E. Cade, K. Bierlich, M. F. Czapanskiy, J. A. Goldbogen, S. R. Kahane-Rapport, J. M. van der Hoop, M. T. San Luis, and A. S. Friedlaender, "Baleen whale inhalation variability revealed using animal-borne video tags," *PeerJ*, vol. 10, e13724, 2022. URL: https://peerj.com/articles/13724/.

In review

1. S. Bartosik-Velez, **E. C. Nazario**, A. H. Reynolds, P. Chambault, T. L. Kendall, K. L. Flammer, D. R. Christen, and T. M. Williams, "Beyond the ridge: Rethinking thermal windows in beluga whales," In review.
2. **E. C. Nazario**, H. Bailey, R. Rhodes, E. L. Hazen, S. J. Bograd, A. Sell, D. J. McCauley, M. F. Baumgartner, A. Širović, B. Abrahms, and R. Seary, "The role of species distribution models and data redundancy in implementing dynamic ocean management," In review.
3. **E. C. Nazario**, M. F. Czapanskiy, M. L. Pinsky, D. R. Christen, K. L. Flammer, K. A. Ford, T. L. Kendall, B. Tom, S. Bartosik-Velez, J. Allyn, F. Sanchez Villarreal, and T. M. Williams, "The influence of carbon dioxide accumulation on integrative physiological recovery timelines in diving odontocetes," In review.
4. **E. C. Nazario**, N. Lezama-Ochoa, M. Czapanskiy, H. Dewar, A. Preti, A. Fredston, M. Pinsky, M. P. Buil, and E. Hazen, "Dissolved oxygen and metabolic parameters improve species distribution models for a marine predator," In review.