

# ROBIN ELAHI

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## EDUCATION

2006-2012 Ph.D. in Biology, University of Washington  
2003-2005 M.S. in Biology, California State University, Northridge  
1998-2003 B.S. in Biology, Northeastern University

## PROFESSIONAL APPOINTMENTS

2023- Advanced Lecturer, Hopkins Marine Station, Stanford University  
2018-2023 Lecturer, Hopkins Marine Station, Stanford University  
2018 Visiting lecturer, Historical Marine Ecology Research Experience,  
Friday Harbor Labs, University of Washington  
2016-2018 Postdoctoral researcher, Stanford University  
2014-2016 National Science Foundation Postdoctoral Fellow, Stanford University and  
University of British Columbia

## TEACHING

2023, 2024 Between Pacific Tides: Invertebrate Zoology in Monterey Bay; Topics in Scientific  
and Statistical Computing; Environmental Change and Marine Biodiversity;  
Research in Ecology and Ecological Physiology; Kelp Forest Ecology  
2022 Historical Ecology at Hopkins Marine Station; Research in Ecology and Ecological  
Physiology; Experimental Design and Probability; People and Nature of Monterey  
Bay; Kelp Forest Ecology  
2021 Statistical Modeling; Invertebrate Zoology  
2020 Historical Ecology of Marine Invertebrates; Topics in Scientific and Statistical  
Computing  
2019 Statistical Modeling; Experimental Design and Probability, Research in Ecology  
and Ecological Physiology; Kelp Forest Ecology  
2018 Carpentry Instructor certification  
2013 Ecology; Marine Biology. California State University, Monterey Bay  
2006 Introductory Biology for non-majors. Los Angeles City College

## MENTORING (LAST 10 YEARS)

2023, 2024 Hayden Riley (Stanford University undergraduates)  
2022, 2023 Maya Green, Maya Passmore (Stanford University undergraduates)  
2022 Clive Potter (Monterey Bay Charter School 8<sup>th</sup> grade student)  
2020, 2022 Jaionna Holmes, Bailey Merritt (Salinas High School students)  
2020-2022 Jamie Leonard (Stanford University undergraduate)  
2019-2020 Benjamin Burford (Stanford University graduate)  
2018 Chloe May, Jamie Fields, Cormac Toler-Scott (University of Washington  
undergraduates)

- 2016 Jacopo Beccacece (Marche Polytechnic University postgraduate).  
 2014 Will Sano (Brown University undergraduate)

#### LEADERSHIP AND SERVICE

- 2020-2024 Participated in Stanford Dive Control Board meetings  
 2023 Co-leading collaborative research at Hopkins Marine Station (*Species interactions in marine ecosystems through the lens of sex*)  
 2023 Served on an interview committee for the position of Diving and Boating Safety Officer at Stanford / Hopkins Marine Station  
 2019-2023 Leading an NSF-funded project on broadening participation in marine science
- <https://purl.stanford.edu/kv041ng6595>
  - <https://purl.stanford.edu/wp446bg1851>

#### GRANTS AND FELLOWSHIPS (LAST 10 YEARS)

- 2021 Stanford Digital Learning Initiative seed grant (*Virtual dives and data collection in the kelp forests of Monterey Bay*; \$10,800)  
 2020 NSF Research Coordination Network in Undergraduate Biology Education (\$75,000)  
 2014 NSF Postdoctoral Research Fellowship, Intersections of Math and Biology (\$140,000 total)

#### PUBLICATIONS (LAST 5 YEARS; **26 TOTAL**)

- Gissi, E., Goodman, M.C., **Elahi, R.**, McDevitt-Irwin, J.M., Arnoldi, N.S., Arafeh-Dalmau, N., Knight, C.J., Olguín-Jacobson, C., Palmisciano, M., Tillman, C.M. and G.A. De Leo. 2024. Sex-specific variation in species interactions matters in ecological communities. In press. *Trends in Ecology and Evolution*. <https://doi.org/10.1016/j.tree.2024.07.006>
- Elahi, R.**, Edmunds, P.J., Gates, R.D., Kuffner, I.B., Barnes, B.B., Chollett, I., Courtney, T.A., Guest, J.R., Lenz, E.A., Toth, L.T., Viehman, T.S., Williams, I.D. 2022. Scale dependence of coral reef oases and their environmental correlates. *Ecological Applications* 32: e2651
- Burford, B.P., Wild, L.A., Schwarz, R., Chenoweth, E.M., Sreenivasan, A., **Elahi, R.**, Carey, N., Hoving H.T., Straley, J.M., and M.W. Denny. 2022. Rapid range expansion of a marine ectotherm reveals the demographic and ecological consequences of short-term variability in seawater temperature and dissolved oxygen. *The American Naturalist*. 199: 523-550.
- Elahi, R.**, Miller, L., and S. Litvin. 2020. Historical comparisons of body size are sensitive to data availability and ecological context. *Ecology* 101: e03101
- Micheli, F., Carlton, J., Pearse, J., Selgrath, J., **Elahi, R.**, Watanabe, J., Mach, M.E., McDevitt-Irwin, J., Pearse, V., Burnett, N., and C. Baxter. 2020. Field stations as sentinels of change. *Frontiers in Ecology and the Environment* 18: 320-322.
- Courtney, T.A., Barnes, B.B., Chollett, I., **Elahi, R.**, Gross, K., Guest, J.R., Kuffner, I.B., Lenz, E.A., Nelson, H.R., Rogers, C.S., Toth, L.R., and A. Andersson. 2020. Disturbances drive changes in coral community assemblages and coral calcification capacity. *Ecosphere* 11: e03066
- Bowler, D.E., Bjorkman, A.D., Dornelas, M., Myers-Smith, I., O'Connor, M.I., Navarro, L.M., Niamir, A., Supp, S.R., Waldock, C., Vellend, M., Blowes, S.A., Böhning-Gaese, K., Bruelheide, H., **Elahi, R.**, Antão, L.H., Hines, J., Isbell, F., Jones, H.P., Magurran, A.E.,

- Cabral, J.S., Winter, M., and A.E. Bates. 2020. Mapping human pressures on biodiversity across the planet uncovers anthropogenic threat complexes. *People and Nature* 2: 380-394.
- Chase, J., McGill, B., Thompson, P.L., Antao, L., Bates, A., Blowes, A., Dornelas, M., Gonzalez, A., Magurran, A., Supp, S.R., Winter, M., Bjorkman, A., Bruelheide, H., Byrnes, J.E., Cabral, J., **Elahi, R.**, Gomez, C., Guzman, H., Isbell, F., Myers-Smith, I., Jones, H., Hines, J., Vellend, M., Waldock, C., and M.I. O'Connor. 2019. Species richness change across spatial scales. *Oikos* 128: 1079-1091

## TALKS AND SEMINARS

### *Invited talks*

- 2020 Trends in biodiversity and body size on rocky shores over the past century. Oregon Institute of Marine Biology, University of Oregon, OR.
- 2018 *Macrocystis*: a foundation for the forest. Hopkins Marine Station, Stanford University, CA
- 2018 Up close and far away: observations of snails and ships unveil human impacts. Friday Harbor Labs, University of Washington, WA
- 2017 Benthic ecology in a changing ocean. San Francisco State University, San Francisco, CA
- 2017 Ecological change in the contemporary ocean: challenges, insights, and opportunities. University of Connecticut, Avery Point, CT

### *Contributed talks (last 5 years)*

- 2018 Synthesizing snail size shifts: evidence for body size decline over time. Western Society of Naturalists. Tacoma, WA
- 2017 Proposal for a fisheries restricted area in the Pomo-Jabuka Pit, Adriatic Sea. Food and Agriculture Organization of the United Nations, General Fisheries Commission for the Mediterranean, Rome, Italy
- 2016 Decadal-scale changes in body size along an intertidal gradient support the temperature-size rule. Western Society of Naturalists. Monterey, CA
- 2016 Recent trends in coastal biodiversity. American Society of Naturalists. Asilomar, CA

## SYNTHETIC ACTIVITIES

- 2017 Bayesian modeling for ecological and social scientists. National Socio-Environmental Synthesis Center.
- 2016 Local-scale ecosystem resilience amid global-scale ocean change: the coral reef example. Powell Center for Analysis and Synthesis.
- 2016 Quantifying biodiversity change through time. German Centre for Integrative Biodiversity Research.
- 2015 Understanding recent biodiversity change across spatial and temporal scales. Canadian Institute of Ecology and Evolution.
- 2014 Uncovering bright spots in the resilience of marine ecosystems to climatic disturbances. Hopkins Marine Station.

## PROFESSIONAL SERVICE

### *Grant review*

2020 National Science Foundation, Antarctic Programs  
2014 National Science Foundation, Biological Oceanography

*Peer review*

*American Naturalist, BioInvasions, Bulletin of Marine Science, Coral Reefs (2×), Ecology (5×), Ecology & Evolution, Ecology Letters (3×), Functional Ecology (2×), Galaxea, Hydrobiologia, Marine Biology, Marine Ecology Progress Series (8×), Oecologia, PLoS ONE*

**SKILLS**

Proficient in R: programming, statistical analysis, and data visualization (~8000 hours)  
Proficient in generalized linear and additive models, multivariate statistics, demographic modeling, experiment design and analysis  
Intermediate knowledge of Bayesian hierarchical models (JAGS, STAN)  
PADI SCUBA Divemaster (>1000 dives)  
PFI Freediver  
American Academy of Underwater Sciences (AAUS) Scientific Diver (since 2002)  
Nitrox, CPR, First Aid, Oxygen Administration, Defibrillation, Hazardous Marine Life  
Small boat operator (California State boat license)

**PROFESSIONAL MEMBERSHIPS**

Western Society of Naturalists

**COMMUNITY OUTREACH**

2023-2024 Coached youth basketball  
2021-2022 Mentored local middle and high school students on marine science projects  
2015-2019 Participated in Hopkins Marine Station open house

**LANGUAGES**

Czech Speaking – native; Reading – conversational; Writing – limited  
Spanish Speaking – conversational; Reading – limited; Writing – limited