

ROBIN ELAHI

Postdoctoral Researcher

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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

2016-2017 Postdoctoral researcher, Stanford University
2014-2015 National Science Foundation Postdoctoral Fellow, Stanford University and University of British Columbia

PUBLICATIONS

Elahi, R., O'Connor, M.I., Byrnes, J.E.K., Dunic, J., Eriksson, B.K., Hensel, M.J.S. and P.J. Kearns. 2015. Recent trends in local-scale marine biodiversity reflect community structure and human impacts. *Current Biology* 25:1938-1943

Elahi, R., Dwyer, T.R. and K.P. Sebens. 2014. Mesoscale variability in oceanographic retention sets the abiotic stage for subtidal benthic diversity. *Marine Ecology Progress Series* 498:117-132

Elahi, R. and K.P. Sebens. 2013. Experimental removal and recovery of subtidal grazers highlights the importance of functional redundancy and temporal context. *PLoS One* 8(11):e78969

Elahi, R., C. Birkeland, K.P. Sebens, K.R. Turner and T.R. Dwyer. 2013. Limited change in the diversity and structure of subtidal communities over four decades. *Marine Biology* 160:3209-3219

Elahi, R. and K.P. Sebens. 2012. Consumers mediate natural variation between prey richness and resource use in a benthic marine community. *Marine Ecology Progress Series* 452:131-143

Elahi, R. 2008. Effects of aggregation and species identity on the growth and behavior of mushroom corals. *Coral Reefs* 27:881-885

Edmunds, P.J. and **R. Elahi**. 2007. The demographics of a 15-year decline in cover of the Caribbean reef coral *Montastraea annularis*. *Ecological Monographs* 77:3-18

Elahi, R. and P.J. Edmunds. 2007. Determinate growth and the scaling of photosynthetic energy intake in the solitary coral, *Fungia concinna* (Verrill). *Journal of Experimental Marine Biology and Ecology* 349:183-193

- Elahi, R.** and P.J. Edmunds. 2007. Tissue age affects calcification in the scleractinian coral, *Madracis mirabilis*. *Biological Bulletin* 212:20-28
- Elahi, R.** and P.J. Edmunds. 2007. Consequences of fission in the coral *Siderastrea siderea*: growth rates of small colonies and clonal input to population structure. *Coral Reefs* 26:271-276

GRANTS AND FELLOWSHIPS

- 2014-2015 NSF Postdoctoral Research Fellowship, Intersections of Math and Biology (\$140,000 total)
- 2011, 2008 NSF GK-12 Fellowship (\$60,000 total)
- 2011 University of Washington (UW) Biology Tunnicliffe Writing Fellowship (\$4300)
- 2010 Lerner-Gray Grant for Marine Research (\$1444)
- 2010, 2007 UW Biology-Friday Harbor Labs Awards (\$3150 total)
- 2009 American Association for Underwater Science (\$1500)
- 2007-2008 Achievement Rewards for College Scientists Fellowship: (3×; \$9,000 total)
- 2004, 2003 California State University (CSU) Student Projects (\$2,400 total)
- 2004, 2003 CSU Associated Students (\$1,300 total)
- 2003 CSU Graduate Studies (\$400)
- 2003 Project Aware (\$400)
- 2002 Northeastern University (NU) College of Experience Education (\$1,000)

AWARDS AND HONORS

- 2006 CSU Outstanding Graduate Research Award
- 2005 NSF Graduate Research Fellowship, honorable mention
- 2003 NU Sears B. Condit Award
- 2002 NU Dr. Carl Muckenhoupt Memorial Scholarship (\$1,600)
- 2002 NU Amelia Peabody Scholarship (\$300)
- 2002, 2001 NU Joseph Arthur Coolidge Achievement Award (\$1,000 total)

TEACHING

Instructor

- 2013 Ecology, Marine Biology. California State University, Monterey Bay
- 2006 Introductory Biology for non-majors. Los Angeles City College

NSF GK-12 teaching fellow

- 2010 Marine Science. Garfield High School, Seattle
- 2008 Biology. Friday Harbor High School, Friday Harbor

Teaching assistant

- 2007-2011 Friday Harbor Laboratories

- Ocean Acidification, Marine Environmental Research, Scientific Diving,
Marine Invertebrate Zoology, Marine Subtidal Ecology, Marine Botany
- 2006-2011 University of Washington
Biology of Algae, Invertebrate Zoology (2×), Evolution and Systematics,
Foundations of Ecology
- 2004-2006 Northeastern University Three Seas Marine Biology Program
Biology of Corals (3×), Tropical Terrestrial Ecology
- 2003-2005 California State University, Northridge
Physiological Ecology, Introductory Biology (2×), Invertebrate Zoology

MENTORING

- 2014 Brown University undergraduate student. Hopkins Marine Station, CA
- 2012 Northeastern University masters student. Three Seas East West Marine Biology
Program. Friday Harbor Labs, WA
- 2011 Two students, Research Experience for High School Students. Friday Harbor Labs
- 2009 Three University of Washington undergraduate students. Marine Ecology
Research Apprenticeship. Friday Harbor Labs

TALKS AND SEMINARS

Campus talks

- 2012 Species, structure, and scale in the subtidal Salish Sea. Friday Harbor Labs, WA
- 2012 Diversity in the Salish Sea: patterns and process at different scales. Guest lecture
for Topics in Marine Ecology. School of Marine Affairs, University of Washington
- 2011 Spatial ecology and the ecology of space. Guest lecture for Spatial Ecology of the
Salish Sea Benthos. Friday Harbor Labs, WA

Contributed talks

- 2016 Recent trends in coastal biodiversity. American Society of Naturalists.
Asilomar, CA
- 2015 Identifying anthropogenic drivers of changes in local scale marine diversity.
Western Society of Naturalists. Sacramento, CA
- 2015 What can we learn from the *Pisaster* disaster? Responses of *Pisaster* populations
and intertidal mussels to seaster wasting disease. Western Society of Naturalists.
Sacramento, CA
- 2014 Human-driven gains and losses of local species diversity in modern marine
ecosystems. Western Society of Naturalists. Tacoma, WA
- 2012 Functional redundancy and the non-additive impacts of marine consumers.
Ecological Society of America. Portland, OR (poster)
- 2012 A consumer one-two punch, and a possible defense. Society of Integrative and
Comparative Biology. Charleston, SC
- 2011 A consumer one-two punch: facilitation and functional diversity prevent reversals
in community composition. Western Society of Naturalists. Vancouver, WA

- 2011 Mesoscale oceanographic variation and missing trophic links in subtidal benthic communities. Salish Sea Ecosystem Conference. Vancouver, BC
- 2010 Urchins mediate natural variation between biodiversity and resource use. Western Society of Naturalists. San Diego, CA
- 2010 Diversity, consumer pressure and resource availability on subtidal rock walls. Society of Integrative and Comparative Biology. Seattle, WA.
- 2009 Species richness, consumer pressure and resource availability in epilithic communities. International Temperate Reef Symposium. Adelaide, Australia
- 2007 Community ecology of fungiid corals: an experimental test of niche partitioning. 21st Century COE Symposium. University of the Ryukyus, Okinawa, Japan
- 2006 Consequences of fission in the coral *Siderastrea siderea*: growth rates of small colonies and clonal input to population structure. Western Society of Naturalists. Redmond, WA
- 2005 Is bigger better? Testing for energetic constraints on the maximum size of a solitary scleractinian coral, *Fungia concinna*. Western Society of Naturalists. Monterey, CA
- 2004 The effects of age and size on the physiology of a scleractinian coral. Benthic Ecology Meeting. Williamsburg, VA

SYNTHETIC ACTIVITIES

- 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

- 2014 National Science Foundation, Biological Oceanography

Peer review

Bulletin of Marine Science, Coral Reefs, Ecology (2×), Ecology Letters, Functional Ecology, Galaxea, Hydrobiologia, Marine Biology, Marine Ecology Progress Series (6×), PLoS One

MEDIA COVERAGE

- 2015 Human activities, shifts in local species reshaping coastal biodiversity.
Science Daily, 9 July 2015.
<www.sciencedaily.com/releases/2015/07/150709132447.htm>.
- 2013 Safeguarding marine species: a dynamic approach to preservation.
International innovation, Research Media Ltd., Bristol, UK, February 2013.
- 2013 Underwater rock walls in the San Juan Islands are healthy and amazingly diverse.
San Juan Islander, San Juan Island, WA, September 2013.
<<http://sanjuanislander.com/opinion/columnists/tide-bites/16823>>

SKILLS

Programming in UNIX, Python, R
Statistical analysis and data visualization in R
PADI SCUBA Divemaster (970 dives)
American Academy of Underwater Sciences (AAUS) Scientific Diver (since 2002)
Nitrox, CPR, First Aid, Oxygen Administration, Defibrillation, Hazardous Marine Life
Small boat operator (Washington State boat license)

PROFESSIONAL MEMBERSHIPS

American Society of Naturalists

LANGUAGES

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

REFERENCES

Giulio De Leo

Professor
Woods Institute for the Environment
Hopkins Marine Station
Stanford University
120 Ocean View Blvd
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Department of Zoology
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