Rebecca Ann Howard

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2020 – Present **Ph.D. Ocean Ecology and Biogeochemistry**

Oregon State University, College of Earth, Ocean, and Atmospheric Sciences Thesis Advisor: Dr. Lorenzo Ciannelli (Fisheries Oceanography Lab)

2018 – 2020 M.S. Marine Resource Management

Oregon State University, College of Earth, Ocean, and Atmospheric Sciences Thesis Advisor: Dr. Lorenzo Ciannelli (Fisheries Oceanography Lab)

2011 – 2015 B.S. Aquatic Biology

University of California Santa Barbara, College of Letters and Science Thesis Advisor: Dr. Mark Page (Page/Dugan Lab)

Experience

2018 – 2020 M.S. Graduate Student Researcher

Oregon State University, College of Earth, Ocean, and Atmospheric Sciences
Used statistical models to investigate the effects of oceanography and climate
on groundfish long-term distribution and abundance in the northern California
Current. Studied the overlap of fishery-independent (NMFS survey) and dependent (logbook and landings) data sources on the Oregon continental
shelf and their potential utility for assessment of nearshore flatfishes. Two
manuscripts are in preparation. Analyses completed using R.

2016 – 2017 **AmeriCorps Member**

Watershed Stewards Program, place at the NMFS SWFSC

Collected data for population assessment of endangered Central California Coho salmon and threated steelhead trout by stream surveys, juvenile trapping, and tagging. Created maps using ArcGIS for conference poster and future publications. Archived historical biological samples. Taught watershed curriculum to 3rd grade students and put on restoration event at a state park.

2015–2017 North Pacific Groundfish Observer

Alaskan Observers, Inc., contracted for the NMFS AFSC

Collected biological, safety, and effort data aboard commercial bottom trawlers in the Bering Sea. Biological data included maturity scans, otoliths, and salmon genetic samples. Worked with observers, NMFS scientists, fishermen, and processing plants.

2014 – 2015 Undergraduate Research Assistant

Marine Science Institute, University of California Santa Barbara (Page/Dugan Lab) Tested the swimming duration of *Watersipora subtorquata* to determine potential to spread as invasive species in the Santa Barbara Channel. Participated in SCUBA settlement plate surveys for presence of recently settled *W. subtorquata*. Conducted SCUBA surveys for eelgrass presence.

Summer 2014 Undergraduate Research Assistant

Earth Research Institute, University of California Santa Barbara (CEIN)

Development of settlement plate frames and antifouling paint treatments to test effectiveness of zinc and copper on invertebrate fouling communities.

2013 – 2014 Undergraduate Research Assistant

EEMB Dept., University of California Santa Barbara (Dr. Peter Collins' Lab) Documented the embryonic development of cabezon (*Scorpaenichthys marmoratus*) using photomicroscopy. Assisted in larval rockfish laboratory hypoxia studies.

Posters

RA Howard, L Ciannelli, WW Wakefield, and MR Fewings. Four decades of change in the Oregon nearshore flatfish fishery through the eyes of science and industry. Poster presented at: Oregon American Fisheries Society March 4, 2020; Bend, OR.

RA Howard, L Ciannelli, WW Wakefield, and MR Fewings. Four decades of change in the Oregon nearshore flatfish fishery through the eyes of science and industry. Poster presented at: State of the Coast; November 10, 2019; Gleneden Beach, OR.

RA Howard, and HM Page. Larval swimming duration of *Watersipora subtorquata*. Poster presented at: Undergraduate Research Colloquium; May 19, 2015; Santa Barbara, CA.

RA Howard and PM Collins. Embryonic development of the cabezon (*Scorpaenichthys marmoratus*). Poster presented at: Undergraduate Research Colloquium; May 20, 2014; Santa Barbara, CA.

Fellowships, Scholarships, and Awards

2020	Thesis Completion Award, Oregon State University
2018	Provost's Distinguished Graduate Fellowship, Oregon State University
2017	Segal AmeriCorps Education Award, Corporation for National and Community Service
2015	B.S. Aquatic Biology Distinction in Major, University of California Santa Barbara
2014	Bradley Paul Nuremberg Memorial Scholarship, UCSB Diving Operations
2014	Co-author: "The effect of hypoxia on the early life history stages of larval rockfish (<i>Sebastes spp.</i>) and cabezon (<i>Scorpaenichthys marmoratus</i>)." Coastal Fund Grant, UCSB

July 2019	Volunteer Survey Biologist West Coast Groundfish Bottom Trawl Survey (F/V Last Straw) NMFS NWFSC Fishery Resource Analysis and Monitoring Division
July 2019	Mooring and Instrument Deployment Volunteer Partnership for the Interdisciplinary Studies of Coastal Oceans (R/V Elakha) Department of Integrative Biology, Oregon State University
May 2017	Volunteer Survey Biologist Rockfish Recruitment and Ecosystem Assessment Survey (NOAAS Reuben Lasker) NMFS SWFSC Fisheries Ecology Division
March 2017	Rockfish Specimen Collection Volunteer Cordell Bank National Marine Sanctuary rockfish collection (charter vessel) NMFS SWFSC Fisheries Ecology Division
2012 – 2015	Aquarist (2015), Intern (2013 – 2015), Volunteer (2012 – 2013) Research Experience and Education Facility (REEF) Marine Science Institute, University of California Santa Barbara

Mentoring and Outreach

2019 – 2020	Academic Mentoring Program (CEOAS AMP), OSU Mentor for four undergraduate students in environmental sciences.
2019 – 2020	National Ocean Sciences Bowls Salmon Bowl event volunteer.
2014 – 2015	Graduate Biology Mentorship Association (BIOME), UCSB Mentor for undergraduate students in biology.
2014 – 2015	Hollister Ranch Tidepool Conservancy, Gaviota, CA Outdoor education for 3 rd through 7 th grade students.