

MacKenna A. H. Hainey

Oregon State University, Carlson College of Veterinary Medicine, Hatfield Marine Science Center, Lab of Dr. Schubiger, Newport OR 97365

[haineym\(at\)oregonstate\(dot\)edu](mailto:haineym(at)oregonstate(dot)edu)

<http://www.mackenna-marine-research.info>

Education History

- 01/2021-25 **PhD Student**, Major Advisor: Carla Schubiger PhD, DVM,
Oregon State University, Carlson College of Vet. Med., Hatfield Marine Sci. Center
- 09/2018 **Master of Science in Biology**, Major Advisor: Richard B. Emlet PhD GPA: 4.02
Oregon Institute of Marine Biology - University of Oregon, Eugene, OR
- 06/2016 **Bachelor of Science in Marine Biology** GPA: 3.24
Oregon Institute of Marine Biology - University of Oregon, Eugene, OR
Departmental honors in biological sciences
- 06/2012 **Oregon Transfer Module** GPA: 3.96
Umpqua Community College (UCC), Roseburg, Oregon
Phi Theta Kappa Honors

Work and Volunteer History

- Marine Science Educator- Medical Aquarist** August 2018 - July 2020
AmeriCorps, OIMB/CMLC
- Instructor, Invertebrate Biology Lab Z-362, OSU** March- June 2020
- Wildlife Photographer**, ODFW, Conservation Strategy Species On-going
- Ornamental & Aquarium Fish Medicine Training**, VMB- 727 April 2019
Hatfield Marine Science Center, Oregon Coast Aquarium, Oregon State University.
- Costal Master Naturalist Course Assistant**, Oregon Sea Grant June 2018
- Graduate Teaching Fellow positions:** Department of Biology, University of Oregon
- Estuarine Biology (Inst: Richard Emlet, PhD) Fall 2016, 2017
- Invertebrate Zoology (Inst: Richard Emlet, PhD, Maya Watts, PhD) Spring 2017, 2018
- Animal Behaviour (Inst: Alan Shanks, PhD) Winter 2018
- REU Program Graduate Student Assistant (Inst: R. Emlet, PhD, M. Watts, PhD) Summer 2017
- Graduate Research Fellow**, OIMB Fall 2016 -Winter 2017
Grant title: Spawning during storms and the subsequent dispersal and settlement of coastal invertebrate larvae -NSF PIs: R.B. Emlet, A.L. Shanks, and D.A. Sutherland
- Undergraduate Research Assistant**, OIMB Winter 2015, 2016
Grant title: Spawning during storms and the subsequent dispersal and settlement of coastal invertebrate larvae – NSF PIs: R.B. Emlet, A.L. Shanks, and D.A. Sutherland
- Undergraduate Research Assistant**, OIMB Spring 2016
Fluctuations of *Metacarcinus magister* megalopa into the Coos Bay Estuary. PI: A.L. Shanks
- South Slough Research Internship** Fall 2015 – Winter 2016
- Independent Researcher- Isla Colon, Panama** September, 2015, 2017
Smithsonian Tropical Research Institute, Bocas del Toro
- Research Tech, Lough Hyne, Ireland** June, 2017
University College Cork, Cork Ireland

Volunteer

- Natl. Service Worker, Aquarist, Marine Science Educator** 2015 – present
Charleston Marine Life Center
- Beach cleaner, SOLVE**, Charleston, Coos Bay, Reedsport, Or 2011- 2020
- Beach Debris Sculpture-er**, Washed Ashore, 2015 – 2019
- Volunteer educator, field work**, South Slough NERR, Charleston, OR 2019

Guest Lecturer

- Sea Star Wasting Syndrome and other local marine issues - Umpqua C.C. Feb. 2019, 2020
- Translating your research- the art of effective outreach, OIMB, Ocean Acidification July 2019
- An Overview of Marine Invertebrates, Charleston Marine Life Center April 2019
- Photography as a Tool for Better Science Communication March 2019, Dec. 2019
- UCAN Southern Oregon AmeriCorps, Medford/Winston (Wildlife Safari), OR, 2019
- Our Local Plankton, OIMB, Or. Sea Grant, Coastal Master Naturalists June 2018

Publications

- **Hainey, M.**, Emllet, R., 2020. *Gorgonocephalus eucnemis* (Echinodermata: Ophiuroidea) and bursal ventilation. The Biological Bulletin, Vol.238, June 2020. Doi:10.1086/709575
- Shanks A., Rasmuson L., Valley J., Jarvis M., Salant C., Sutherland D., Lamont E., **Hainey M.**, and Emllet, R. 2019. Marine heat waves, climate change, and failed spawning by coastal invertebrates. *Limnology and Oceanography*, doi: 10.1002/lno.11331
- ***Hainey, M.**, Heoke, J. *Gorgonocephalus eucnemis*, The Basket Star. Oregon Shelf Invertebrates. University of Oregon, 2019 * A publication of the U of O Libraries and the OIMB
- **Hainey, M.**, & Emllet, R. (2018). Behavior and Functional Morphology of Respiration in the Basket Star, *Gorgonocephalus Eucnemis* and Two Brittle Stars in the Genus *Ophiothrix*. University of Oregon Libraries. ProQuest. MSc Thesis. <http://hdl.handle.net/1794/24233>
- **Hainey, M. A.**, A Case of Kleptoparasitism Observed in the Basket Star *Gorgonocephalus eucnemis*. Submission pending to The Scientific Naturalist | ESA.

Published Photographs- June, 2020. Biological Bulletin, Cover • Adult and Juvenile *Gorgonocephalus eucnemis*. Oregon Quarterly, Spring 2018. University of Oregon, pp. 16-17.

- Jellyfish. Oregon Coast Magazine, Spring 2019., pp.106, 109.

Select Academic Presentations

Hainey, M., Emllet, R. Behaviour and Functional Morphology of Respiration in the Basket Star *Gorgonocephalus eucnemis*. •W. Society of Naturalists, Tacoma, WA, 2018. Contributed papers

Funding

Current: Oregon Shell Club Scholarship (\$500), Mamie Markham Research Award, (\$5000), ODFW Marine Reserve Grad Student Scholarship, (\$1000), McNeil Scholarship, (\$2500)

Past: Ford Family Scholars & Grad. Scholars

Certifications

Anti-Oppression & Cultural Competency training, 2020 •LGBTQIA Equity and Inclusion Training, 2019 •DAN Basic life support & O₂ administration, 2019• Children's Hope Center Preventing Sexual Abuse Training, 2019 •Diversity, Equity & Inclusion Training, 2018 • Research Mentor Training – U. Wisconsin, 2017 • U of O's animal welfare services training (AWS, IACUC), 2017 •Oregon Boating (OSMB), 2016 • AOW diving & UW photography (PADI), 2014