

# Wendel W. Raymond

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## Education

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**University of Alaska Fairbanks**, Juneau, AK 2020 (expected)  
PhD Candidate - fisheries  
Dissertation title: The role of sea otters in Southeast Alaska eelgrass communities and sea otter harvest dynamics

**Oregon State University**, Corvallis, OR 2012  
B.S. Biology – marine biology concentration, chemistry minor  
Cum Laude, Research Fellow

## Selected professional experience

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**University of Alaska Fairbanks**, Juneau, AK  
*Graduate Research Assistant* Aug. 2019 – present  
Trophic linkages in eelgrass ecosystems. NSF.

*NSF Graduate Research Fellow* 2015 – present  
Investigating sea otter – eelgrass relationships with a focus on field surveys and community biomarker analysis.

*Adjunct Instructor* May 2019  
FISH 414 Field Methods in Marine Ecology and Fisheries (3 crd).

*Graduate Research Assistant* Aug. 2014 – Aug. 2016  
Sustainability of coastal communities and sea otters: harvest and future management of sea otters.  
Alaska Sea Grant.

*Graduate Teaching Assistant* May 2015  
FISH 414 Field Methods in Marine Ecology and Fisheries (3 crd).

**University of Washington – Friday Harbor Laboratories**, Friday Harbor, WA  
*Research Technician* Jun. 2012 – Aug. 2014  
Impacts of shoreline armoring on Puget Sound beaches.

*Research Technician* Jun. 2012 – Sept. 2013  
Spatial subsidy and connectivity between nearshore macrophyte production and subtidal food webs.

## Publications (†undergraduate author)

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### *In progress*

**Raymond WW**, Hughes B, Stephens TA, Mattson C†, Bolwerk A, Tinker MT, Eckert GL. *In prep.*

Generality and variability of apex predator mediated trophic cascades in eelgrass ecosystems.

**Raymond WW**, Schram J, Galloway A, Eckert GL. *In prep.* Effect of sea otters on the trophic structure of Southeast Alaska eelgrass beds.

Whalen M, Whippo R,... et al. **Raymond WW**,... Duffy JE. *In review.* Predator communities mediate the effect of climate on predation intensity in shallow marine environments.

### *Published*

Prentice C, Poppe KL, Lutz M, Murray M, Stephens TA, Spooner A, Hessing-Lewis M, Sanders-Smith R, Rybczyk JM, Apple J, Short F, Gaeckle J, Helms A, Mattson C†, **Raymond WW**, Klinger T. 2020. A synthesis of blue carbon stocks, sources and accumulation rates in eelgrass (*Zostera marina*)

meadows in the Northeast Pacific. *Global Biogeochemical Cycles*.  
doi.org/10.1029/2019GB006345

- Raymond WW**, Tinker MT, Benter B, Kissling M, Gill V, Eckert GL. (2019). Location specific factors influence patterns and effects of subsistence sea otter harvest in southeast Alaska. *Ecosphere*. doi.org/10.1002/ecs2.2874.
- Stephens TA, Hughes BB, Kroeker KJ, Hessing-Lewis M, Monteith Z, Morris M, **Raymond WW**. (2019). Between a rock and a soft place: surfgrass also colonizes sediments without attachment to rock. *Ecology*. doi 10.1002/ecy.2791
- Tinker MT, Gill V, Esslinger GG, Bodkin J, Monk M, Mangel M, Monson DH, **Raymond WW**, Kissling M.(2019). Trends and carrying capacity of sea otters in Southeast Alaska. *J Wildlife Manag.* 83:1-17.
- Dethier MN, **Raymond WW**, McBride AN, Toft JD, Cordell JR, Ogston AS, Heerhartz SM, Berry HD (2016) Multiscale impacts of armoring on Salish Sea shorelines: Evidence for cumulative and threshold effects. *Estuar Coast Shelf Sci* 175:106–117
- Raymond WW**†, Albins MA, Pusack TJ (2015) Competitive interactions for shelter between invasive Pacific red lionfish and native Nassau grouper. *Environ Biol Fishes* 98:57–65
- Raymond WW**, Lowe A, Galloway AWE (2014) Degradation state of algal diets affects fatty acid composition but not size of red urchin gonads. *Mar Ecol Prog Ser* 509:213–225
- Dethier MN, Brown AS†, Burgess S†, Eisenlord ME, Galloway AWE, Kimber J†, Lowe AT, O’Neil CM†, **Raymond WW**, Sosik EA., Duggins DO (2014) Degrading detritus: Changes in food quality of aging kelp tissue varies with species. *J Exp Mar Bio Ecol* 460:72–79

## **Grants, Honors, Awards**

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- 2018 Goetz Instrument Support Program – Awarded use of ASD HandHeld 2: Hand-held VNIR Spectroradiometer and \$500 towards publication/travel charges.
- 2018 University of Alaska Fairbanks – College of Fisheries and Ocean Sciences Outstanding Graduate Student
- 2017 North Pacific Research Board – Graduate Student Research Award. Sea otters and ecosystem function of eelgrass habitats in Southeast Alaska. \$25,000
- 2017 American Fisheries Society – Steven Berkley Marine Conservation Fellowship. A model for marine conservation: community structure and trophic mechanisms in Southeast Alaska eelgrass ecosystems. \$10,000
- 2017 Lerner-Gray Fund for Marine Research. Sea otters, seagrass, and fish communities in Southeast Alaska. \$1,000.
- 2017 Earthwatch Institute. The role of sea otters in seagrass in Southeast Alaska. PI Eckert GL, Co-PI Raymond WW. \$87,300
- 2015 NSF Graduate Research Fellowship Program. \$46,000/year for 3 years
- 2011 NSF Research Experience for Undergraduates (REU) summer internship. \$2000

## **Selected presentations** (†undergraduate co-author)

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- Raymond WW**, Schram J, Galloway A, Eckert GL. Trophic mysteries of the shallows: Unraveling eelgrass ecosystems in Southeast Alaska. Presentation at Coastal and Estuarine Research Federation. Mobile, AL. Nov. 2019.
- Raymond WW**, Hughes B, Stephens TA, Mattson C†, Bolwerk A, Eckert GL. Eelgrass community relationships across a gradient of sea otter population recovery. Presentation at Western Society of Naturalists. Tacoma, WA. Nov. 2018
- Raymond WW**, Tinker MT, Kissling M, Benter B, Gill VA, Eckert GL. Sea otter harvest and population dynamics in Southeast Alaska. Presentation at Sea Otter Conservation Workshop X. Seattle, WA. Mar 2017.

## **Skills and certification**

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Software: R/RStudio, git/GitHub, ArcGIS, MS Office suite, Adobe Premier Pro  
Certifications: AMSEA small boat operator, PADI Divemaster, DAN O2 provider, Wilderness First Aid, CPR/AED/First Aid