

## Hamilton William Fennie

---

NOAA Alaska Fisheries Science Center  
Fisheries Resources Division  
7600 Sand Point Way, NE  
Seattle, WA 98115-0070

Email: will.fennie@noaa.gov

Phone: (619) 837-3414

---

## RESEARCH INTERESTS

---

My research focuses on collecting and aging larval and juvenile fish to understand the drivers of early growth, survival, and recruitment. I am especially interested in how the environmental conditions females experience prior to and during reproduction affect maternal condition and translate to investment in larvae as well as how the combination of larval quality and the oceanographic conditions larvae experience affect growth and survival through early life.

## EDUCATION

---

2020 **PhD in Integrative Biology** at *Oregon State University*, Corvallis, OR.

Dissertation: Grow fast or die young: influence of ocean conditions and larval growth on patterns of selective mortality and settlement variability of rockfishes

Dissertation committee: Su Sponaugle (Major advisor), Ric Brodeur, Bob Cowen, Kirsten Grorud-Colvert, Jessica Miller

2015 **M.S. in Marine Science** at *Moss Landing Marine Labs*, Moss Landing, CA.

Thesis: Early life history traits influence the effects of ocean acidification on the behavior and physiology of juvenile rockfishes in central California

Thesis Committee: Scott Hamilton, Jim Barry, Kenneth Coale, Sue Sogard

2009 **B.S. Biology** *University of California at Davis*, Davis, CA.

## PROFESSIONAL EMPLOYMENT

---

2023-present: Research Oceanographer, NOAA/Alaska Fisheries Science Center, Seattle, WA.

## SELECTED PUBLICATIONS

---

Fennie, H. W., Grorud-Colvert, K. Sponaugle S. Larval rockfish growth and survival in response to anomalous ocean conditions. *Scientific Reports*, 13(1), 4089

Fennie, H.W., Seary, R. Muhling, B., Bograd, S.J., Brodie, S., Cimino, M.A., Hazen, E.L., Jacox, M.G., Santora, J.A., Suca, J.J., Thompson, A.R., Tommasi, D. An anchovy ecosystem indicator explains foraging and reproduction of marine top predators. *Proceedings of the Royal Society B*, 290(1992), 20222326.

**Fennie, HW.**, Ben-Aderet, N., Kwan, G., Thompson, A.R. (in prep). Momma's larvae: maternal investment and oceanographic conditions influence rockfish early survival. *Fisheries Oceanography*, 33(2), e12658.

**Fennie, H. W.** Sponaugle S., Daly E., Brodeur R. (2020) Prey tell: what quillback rockfish early life history traits reveal about their survival in encounters with juvenile Coho salmon. *Marine Ecology Progress Series*, 650, 7-18.

Hamilton, S., Logan, C., **Fennie, H. W.**, Sogard, S., Barry, J., Makukhov, A., Tobosa, L., Lovera, C., Bernardi, G. (2017) Species-specific responses of juvenile rockfish to elevated  $p\text{CO}_2$ : from behavior to genomics. *PLoS One*, 12(1), e0169670.

## **PUBLIC OUTREACH**

---

2023-present NOAA Science Camp  
2023 Akutan School Bering Sea Ecosystem and Fisheries Education Event  
2017-2019 Sustainable Fisheries for Teachers Workshop  
2017-2020 Oregon Coast Aquarium Interpretive Diver  
2016-2017 Hatfield Marine Science Day, Public Open House volunteer

## **MAJOR ADVISORS**

---

**Postdoc** Dr. Andrew Thompson, Research Fisheries Biologist, NOAA SWFSC La Jolla  
[Andrew.Thompson@noaa.gov](mailto:Andrew.Thompson@noaa.gov)

**PhD** Dr. Su Sponaugle, Professor, Oregon State University  
[su.sponaugle@oregonstate.edu](mailto:su.sponaugle@oregonstate.edu)

**MS** Dr. Scott Hamilton, Professor, Moss Landing Marine Laboratories  
[shamilton@mlml.calstate.edu](mailto:shamilton@mlml.calstate.edu)