



PhD Student - OR - Postdoctoral Scholar Opportunity Marine Fisheries Ecology

Evaluating climate impacts on Alaska marine ecosystems using size-based food web models

We are soliciting a PhD student or postdoctoral scholar to help advance our understanding of climate impacts on marine food webs for ecosystem-based fisheries management. The successful candidate will join the [Integrated Marine Fisheries Lab at Oregon State University](#) and participate in NOAA's [Alaska Climate Integrated Modeling \(ACLIM\)](#) and [Gulf of Alaska Climate Integrated Modeling \(GOACLIM\)](#) projects, supervised by Drs. Jon Reum (NOAA) and Cheryl Barnes (OSU).

Project scope: Alaska marine ecosystems are among the most productive in the world. They also support some of the largest fisheries, but are highly sensitive to climate change. This position will focus on the application of size-based ecological theory to better understand ecosystem dynamics and assess climate-related impacts. Core objectives are to develop size spectrum food web models using the “mizer” framework and evaluate effects of different fishing and climate scenarios on the Bering Sea and Gulf of Alaska. The person in this position will adapt existing models (e.g., [Reum et al. 2020](#)) to address original research questions that explore, for example, environmental controls on marine food webs, climate-informed ecological forecasting, or management strategy evaluations under changing systems. Opportunities are also available for involvement in international modeling efforts such as [FishMIP](#) and participation in [at-sea surveys](#) in Alaska. The position is ideal for individuals who are interested in developing expertise in food web modeling and advancing climate-informed fisheries management.

Qualifications: A master of science or PhD in marine ecology, statistics, fisheries, or related field. The successful candidate will be proficient in technical writing, familiar with quantitative ecological methods, and experienced with coding in R. A history of working with multispecies or food web models is preferred.

Start Date: January 2025 or later

Location: Newport, OR or Seattle, WA [hybrid or remote work also may be possible]

Benefits: PhD student - stipend (~ \$32,000 per yr), tuition, and university fees.
Postdoctoral scholar - salary (\$67,000 to \$76,000 per yr; based on experience).
Healthcare, travel support, and publication costs will also be provided.

To Apply: Email [a single pdf](#) to jonathan.reum@noaa.gov and cheryl.barnes@oregonstate.edu (subject: ACLIM-GOACLIM mizer) with: 1) a cover letter describing your academic interests, relevant experience, and suitability for the position; 2) curriculum vitae; 3) unofficial transcripts; and 4) contact information for three references. **Application review will begin on December 1, 2024.** The position will remain open until filled.

We place considerable value on diversity, equity, and inclusion. Those with underrepresented and/or historically marginalized identities will be supported and are encouraged to apply.



**Oregon State
University**



NOAA FISHERIES
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ALASKA FISHERIES SCIENCE CENTER

