POSTDOCTORAL SCHOLAR: MODELING TRADE-OFFS AND PREDICTORS OF STOCK-SPECIFIC CHINOOK SALMON BYCATCH IN THE PACIFIC HAKE FISHERY

POSITION: OSU’s Cooperative Institute for Marine Resources Studies invites application for a full-time, 12-month POSTDOCTORAL SCHOLAR appointment with potential to extend for an additional 12 months. This position is located at Hatfield Marine Science Center (HMSC) in Newport, Oregon, but may be served from elsewhere as appropriate depending on circumstance to be negotiated with final candidate.

POSITION RESPONSIBILITIES: This scholar will work in collaboration with Oregon State University (OSU) colleagues in the College of Earth, Ocean, and Atmospheric Sciences (COEAS), Department of Fisheries and Wildlife (F&W) and elsewhere, including NOAA Fisheries/Northwest Fisheries Science Center (NWFSC) and other scientists, managers and stakeholders in the international network that is engaged with commercially harvested marine fish populations in sub-antic and temperate seas. The scholar’s principle responsibility will be to design and perform thorough and vetted analysis of research findings as well as mature these through to publishing of peer-review manuscripts along with presentation at scientific meetings and other professional venues. They will also be supported and have opportunity to foster new professional skills and contacts for development of their own professional career. The scholar’s work will inform Ecosystem Based Fishery Management by identifying predictors of salmon bycatch and potentially enabling a more rigorous accounting of tradeoffs between hake catches, salmon bycatch, and production of adult salmon. OSU mentoring will be provided by Michael Banks (F&W) and Lorenzo Ciannelli (CEOAS) and NWFSC engagement will be with Kate Richerson and other colleagues from OSU, NOAA and the NWFSC Fisheries Observation Science Program.

Specifically, the goals of the first year are to:

1. Create a stock-specific model of salmon bycatch in the hake fishery. Building off models that use genetic stock identification (GSI) findings to predict the origins of salmon bycatch, this effort will model spatial and seasonal predictors of bycatch of specific stocks of salmon encountered by the hake fishery.

Assuming successful progress, goals of a potential second year are to:

2. Identify hotspots where salmon bycatch may have greater impact on key salmon stocks through determining space-time regions where predicted bycatch is higher and thus is likely to have greater impact potential. This will allow explicit identification of spatial-seasonal instances where hake vessels may have greater impact on specific salmon stocks of interest.

3. Perform an analysis of potential tradeoffs between hake fishery yield and salmon bycatch avoidance using information about bycatch hotspots (or lack thereof).

QUALIFICATIONS: Doctorate (PhD) in Quantitative Ecology, Computer Science, Statistics, Fisheries, Oceanography, Ecology, Natural Sciences or related fields. Experience with modelling, advanced statistical analysis, parameter estimations, and applying such techniques to statistical inference. Knowledge of fish and ocean ecology and proficiency with “R” statistical package or similar programming languages. Demonstrated success in scientific publication in peer review contexts, willingness to work collaboratively across multiple levels from junior students to senior scientists and stakeholders promoting an environment that fosters inclusion and retention of diverse cultures and perspectives.

LOCATION: This position is located at Hatfield Marine Science Center (HMSC) in Newport, Oregon, but may be served from elsewhere as appropriate depending on circumstance to be negotiated with final candidate.

STIPEND: $50,004-$57,000 per year, and health insurance for the incumbent. Health insurance for family members is available at reasonable cost. This position does not include retirement benefits. (The budget allows for a scholar with up to five years' experience under OSU policy.) For more info on CIMRS see https://hmsc.oregonstate.edu/cimrs

POSITION AVAILABLE: Summer 2020

APPLICATION AVAILABLE DEADLINE: Until a suitable candidate is found

Please send curriculum vitae, copies of transcripts and contact information of 3 references as soon as possible to: banksm@oregonstate.edu

Oregon State University is an affirmative action/equal opportunity employer.