

**Saang-Yoon Hyun**  
**ABRIDGED CURRICULUM VITAE**

Full Professor  
College of Fisheries Sciences  
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**RESEARCH INTERESTS**

Fish stock assessments; management and conservation; population dynamics; ecology; statistics.

**EDUCATION**

Doctor of Philosophy. June 2002. University of Washington, Seattle, WA, USA  
Quantitative Ecology and Resource Management  
Master of Science. December 1996. University of Washington, Seattle, WA, USA  
Aquatic and Fishery Sciences  
Bachelor. February 1993 (including mandatory military leave 1988 - 1990).  
Jeju (aka Cheju) National University, Jeju, Korea  
Aquaculture and fisheries management

**RESEARCH, FUND DEVELOPMENT & CONSULTING SERVICE**

Pukyong National University, Busan, Korea. December 2014 – Present. Professor. Fisheries Sciences.  
Development of grants.  
Food and Agriculture Organization of the United Nations, Rome, Italy. September – October 2024.  
Review of the State of Stocks Methodology and Analysis for FAO Fisheries Area 61.  
The Center for Independent Experts, USA. Virtual meeting because of Covid 19. March – April 2021.  
Review of “Assessments of the Pacific ocean perch (*Sebastes alutus*) and other rockfish stocks in the Gulf of Alaska”. <https://www.st.nmfs.noaa.gov/science-quality-assurance/cie-peer-reviews/index>  
University of Massachusetts-Dartmouth, MA, USA. June 2010 – November 2014. Assistant Professor (tenure-track). Fisheries Oceanography. Development of grants.  
Columbia River Inter-Tribal Fish Commission, Portland, OR, USA. January 2003 – March 2008; October 2008 – May 2010. Quantitative Fisheries Scientist. Dept. of Fishery Science.  
University of Washington, Seattle, WA, USA. July 2002 – January 2003. Post-doctoral Research Associate. School of Aquatic & Fishery Sciences.  
University of Washington, Seattle, WA, USA. June 1994 – September 2001. Research Assistant, and Research Associate. Aquatic & Fishery Sciences, and Quantitative Ecology & Resource Management.

**TEACHING, SUPERVISION & ADVISING**

Pukyong National University, Busan, Korea. December 2014 – Present. Professor. Fisheries Sciences.  
University of Massachusetts-Dartmouth, MA, USA. June 2010 – Present. Assistant Professor (tenure-track). Fisheries Oceanography.  
Jeju (aka Cheju) National University, Jeju, Korea. April 2008 – September 2008. Full time lecturer. Ocean life sciences.  
University of Washington, Seattle, WA, USA. September 2000 – June 2001, and September 2001 – June 2002. Teaching Associate. Quantitative Ecology & Resource Management, and Center for Quantitative Sciences.

**SELECTED PEER-REVIEWED JOURNAL ARTICLES**

**Hyun, S.-Y.,** and C.J. Cunningham. 2022. A new in-season forecast density of anadromous fish return abundance. Fisheries Research. 256, 106467. <https://doi.org/10.1016/j.fishres.2022.106467>.

- Hyun, S.-Y.**, and K. Kim. 2022. An evaluation of estimability of parameters in the state-space non-linear logistic production model. *Fisheries Research* 245:106135.
- Hyun, S.-Y.** 2018. A general production model with dependence between data from multiple surveys. *Journal of Applied Ichthyology*: 1-9. DOI: 10.1111/jai.13622
- Kim, K., and **S.-Y. Hyun**. 2018. A length-based analysis of recruitment variability in the Korean pollock population under data-limited conditions. *Ocean Science Journal* 53:535-555.
- Miller, T. J., and **S.-Y. Hyun**. 2017. Evaluating evidence for alternative natural mortality and process error assumptions using a state-space, age-structured assessment model. *Canadian Journal of Fisheries and Aquatic Sciences* 75:691-703.
- Hyun, S.-Y.**, Maunders, M. N., and Rothschild, B. J. 2015. Importance of modelling heteroscedasticity of survey index data in fishery stock assessments. *ICES Journal of Marine Science: Journal du Conseil*, 72: 130-136.
- Hyun, S.-Y.**, Cadrin, S. X., and Roman, S. 2014. Fixed and mixed effect models for fishery data on depth distribution of Georges Bank yellowtail flounder. *Fisheries Research*, 157: 180-186.
- Sharma, R., A. Langley, M. Herrera, J. Geehan, and **S.-Y. Hyun**. 2014. Investigating the influence of length-frequency data on the stock assessment of Indian Ocean Bigeye Tuna. *Fisheries Research* 158: 50-62.
- Hyun, S.-Y.**, M.L. Keefer, M.A. Jepson, C.C. Caudill, J.K. Fryer, R. Sharma, J.M. Whiteaker, and G.P. Naughton. 2012. Population-specific escapement of Columbia River fall Chinook salmon: tradeoffs among estimation techniques. *Fisheries Research*. 129-130: 82-93.
- Hyun, S.-Y.**, R. Sharma, J.K. Carlile, J.G. Norris, G. Brown, R.J. Briscoe, and D. Dobson. 2012. Integrated forecasts of fall Chinook salmon returns to the Pacific Northwest. *Fisheries Research* 125-126: 306-317.
- Rothschild, B.J., Y. Jiao, and **S.-Y. Hyun**. 2012. Simulation study of biological reference points for the summer flounder. *Transactions of the American Fisheries Society* 141: 426-436.
- Hyun, S.-Y.**, J.H. Reynolds, and P.F. Galbreath. 2012. Accounting for tag loss and its uncertainty in a mark-recapture study with a mixture of single- and double tags. *Transactions of the American Fisheries Society* 141: 11-25.
- Hyun, S.-Y.**, and R. Sharma. 2007. Bayesian decision analysis for status of Snake River spring-summer Chinook salmon *Oncorhynchus tshawytscha* populations at extinction risk. *Fisheries Science* 73: 808-816.
- Hyun, S.-Y.**, K.W. Myers, and A. Talbot. 2007. Year-to-year variability in ocean recovery rate of Columbia River Upriver Bright fall Chinook salmon (*Oncorhynchus tshawytscha*). *Fisheries Oceanography* 16:4, 350-362.
- Hyun, S.-Y.**, R. Hilborn, J.J. Anderson, and B. Ernst. 2005. A statistical model for in-season forecasts of sockeye salmon (*Oncorhynchus nerka*) returns to the Bristol Bay districts of Alaska. *Canadian Journal of Fisheries and Aquatic Sciences* 62: 1665-1680.

## **PROFESSIONAL AND SERVICE ACTIVITIES**

### **A. Editorial board of journals**

Fisheries and Aquatic Sciences, 2015 – 2020

Korean Society of Fisheries and Aquatic Science, 2015

### **B. Peer reviewer for journals**

Canadian Journal of Fisheries and Aquatic Sciences; Ecological Applications; Fishes; Fisheries and Aquatic Sciences; Fisheries Research; Frontiers in Marine Science; ICES Journal of Marine Science; Korean Society of Fisheries and Aquatic Sciences; North American Journal of Fisheries Management; Ocean Science Journal; and Transactions of the American Fisheries Society.