

Hui Liu
Curriculum Vitae
Associate Professor

Department of Marine Biology
Texas A&M University at Galveston
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Education

Ph.D. Oceanography (2006)
M.S. Statistics (2008)
M.S. Marine Biology (1995)
B.S. Fisheries (1992)

University of Alaska Fairbanks
University of Alaska Fairbanks
Ocean University of China
Ocean University of China

Professional Experience

2018-, *Associate Professor*, Department of Marine Biology, Texas A&M University at Galveston
2012-2018, *Assistant Professor*, Department of Marine Biology, Texas A&M University at Galveston
2013-, *Graduate Faculty*, Department of Oceanography, Texas A&M University
2011-2012, *Research Scientist*, NOAA/Northeast Fisheries Science Center, Woods Hole, MA
2009-2011, *Postdoctoral Fellow*, NOAA/Northeast Fisheries Science Center, Woods Hole, MA
2007-2009, *Postdoctoral Researcher*, Hatfield Marine Science Center, Oregon State University

Peer-Reviewed Publications

*graduate students supervised by HL

§ in Chinese

- Zuo T, **Liu H**. (2019) Seasonal size composition and abundance distribution of *Euphausia pacifica* in relation to environmental factors in the southern Yellow Sea. *Acta Oceanologica Sinica* 38:2, 70–77
- Kobari T, Sastri AR, Yebra L, **Liu H**, Hopcroft RR. (2019) Evaluation of trade-offs in traditional methodologies for measuring metazooplankton growth rates: assumptions, advantages and disadvantages for field applications. *Progress in Oceanography* 10.1016/j.pocean.2019.102137
- Rooker JR, Fraile I, **Liu H**, Abid N, Dance MA, Itoh T, Kimoto A, Tsukahara Y, Rodriguez-Marin E, Arrizabalaga H. (2019) Wide-ranging temporal variation in transoceanic movement and population mixing of bluefin tuna in the North Atlantic Ocean. *Frontiers in Marine Science* 6:398. doi: 10.3389/fmars.2019.00398
- Yang Q, **Liu H**, Liu G-z, Gu Y-b (2018) Spatio-temporal distribution pattern of *Calanus sinicus* and its relationship with climate variability in the northern Yellow Sea. *ICES Journal of Marine Science* 75:2, 764–772.
- Liu H**, Karnauskas M, Zhang X, Linton B, Porch C (2017) Forecasting dynamics of red snapper (*Lutjanus campechanus*) in the U.S. Gulf of Mexico. *Fisheries Research* 187, 31–40.
- Bi R*, **Liu H** (2017) Effects of variability among individuals on zooplankton population dynamics under environmental conditions. *Marine Ecology Progress Series* 564, 9–28.
- Harford WJ, Karnauskas M, Walter JF, **Liu H** (2017) Non-parametric modeling reveals environmental effects on Bluefin tuna recruitment in Atlantic, Pacific, and Southern Oceans. *Fisheries Oceanography* 26:4, 396–412.
- Liu H**, Zhang X, Yang Q, Zuo T, Quigg A (2017) Mesozooplankton dynamics in relation to environmental factors and juvenile fish in a subtropical estuary of the Gulf of Mexico. *Journal of Coastal Research* 33:5, 1038–1050.

- Hu H, Wang J, **Liu H**, Goes J (2016) Simulation of phytoplankton distributions and variations in the Bering-Chukchi Sea with a 3-D physical biological model, *Journal of Geophysical Research – Oceans* 121,4041–4055.
- Zhang H[§], Song C-m, Yan Q-l, **Liu H**, Fan J-f, Guo H, Yang Q (2016) Comparative study on the spatial niche of zooplankton in the Liaohe Estuary in spring and summer. *Marine Environmental Science* 35, 920–925.
- Pulver JR*, **Liu H**, Scott-Denton E (2016) Modeling community structure and species co-occurrences using fishery observer data. *ICES Journal of Marine Science* 73, 1750–1763.
- Doerr JC, **Liu H**, Minello TJ (2016) Salinity selection by juvenile brown shrimp (*Farfantepenaeus aztecus*) and white shrimp (*Litopenaeus setiferus*) in a gradient tank. *Estuaries and Coasts* 39, 829–838.
- Liu H**, Bi H, Peterson WT (2015) Large-scale forcing of environmental conditions on subarctic copepods in the northern California Current system. *Progress in Oceanography* 134, 404–412.
- Glaser SM, Fogarty MJ, **Liu H**, Altman I, Hsieh C-h, Kaufman L, MacCall A, Rosenberg A, Ye H, Sugihara G (2014) Dynamic complexity in coupled human-marine resource systems. *Fish and Fisheries* 15, 616–633.
- Liu H**, Fogarty MJ, Hare JA, Hsieh C-h, Glaser SM, Ye H, Deyle E, Sugihara G (2014) Modeling dynamic interactions and coherence between marine zooplankton and fishes linked to environmental variability. *Journal of Marine Systems* 131,120–129.
- Bi H, Ji R, **Liu H**, Jo Y-H, Hare JA (2014) Decadal changes of zooplankton in the northeast coast of the United States. *PLoS ONE* 9(1): e87720. doi:10.1371/journal.pone.0087720.
- Liu H**, Hopcroft RR, Bi H (2013) Statistical modeling copepod growth rates: comparisons for data collections using the artificial cohort (AC) method. *Journal of Experimental Marine Biology and Ecology* 448, 271–280.
- Fogarty MJ, Friedland K, Col L, Gamble R, Hare J, Hyde K, Link L, Lucey S, **Liu H**, Nye J, Overholtz WJ, Richardson D, Rountree B, Taylor M (2012) Status of the Northeast U.S. continental shelf Large Marine Ecosystem: An indicator-based approach. *AFS Gulf of Maine Symposium Proceedings: Advancing an Ecosystem Approach in the Gulf of Maine. American Fisheries Society Symposium* 79, 139–165.
- Liu H**, Fogarty MJ, Glaser SM, Altman I, Kaufman L, Rosenberg AA, Sugihara G (2012) Nonlinear dynamic features and co-predictability in the Georges Bank fish community. *Marine Ecology Progress Series* 464, 195–207.
- Pranovi F, Link J, Fu C, Cook AM, **Liu H**, Gaichas S, Friedland KD, Utne KR, Benoît HP (2012) Trophic-level determinants of biomass accumulation in marine ecosystems. *Marine Ecology Progress Series* 459, 185–201.
- Fu C, Boldt J, Link JS, Bundy A, Gaichas S, Gamble R, Cook A, Utne KR, **Liu H**, Friedland K (2012) The effects and relative importance of fishing, trophodynamic and environmental drivers on ecosystems. *Marine Ecology Progress Series* 459, 169–184.
- Liu H**, Peterson WT (2010) Seasonal and inter-annual variations in the abundance and biomass of *Neocalanus plumchrus* in continental slope waters off Oregon. *Fisheries Oceanography* 19:5, 354–369.
- Liu H**, Hopcroft RR (2008) Growth and development of *Pseudocalanus* spp. in the northern Gulf of Alaska. *Journal of Plankton Research* 30, 923–935.
- Liu H**, Hopcroft RR (2007) A comparison of seasonal growth and development of *Calanus marshallae* and *C. pacificus* in the northern Gulf of Alaska. *Journal of Plankton Research* 29, 569–581.
- Liu H**, Hopcroft RR (2006b) Growth and development of *Metridia pacifica* (Copepoda:Calanoida) in the northern Gulf of Alaska. *Journal of Plankton Research* 28, 769–781.
- Liu H**, Hopcroft RR (2006a) Growth and development of *Neocalanus flemingeri/plumchrus* in the northern Gulf of Alaska: validation of the artificial cohort method in cold waters. *Journal of Plankton Research* 28, 87–101.

- You K[§], Zeng X, **Liu H**, Zhang X, Liu Q (2003) Selectivity and tolerance of sea urchin (*Hemicentrotus pulcherrimus*) to environmental change. *Chinese Journal of Applied Ecology* 14, 409–412.
- Wang Y[§], Ye Z, You K, **Liu H** (2001) On the mathematical trend in fisheries resources research. *Transactions of Oceanology and Limnology* 4, 66–68.
- You K[§], **Liu H**, Wang Y (2001) Sustainable fisheries and conservation of fisheries biodiversity. *Ocean Economy* 1, 49–56.
- Liu H**[§], Wu Y, Gao S, Zhang Z (1998) Studies on chlorophyll *a* and some other factors in shrimp ponds before the outbreak of shrimp disease. *Journal of Ocean University of Qingdao* 28, 378–382.
- Liu H**[§], Wu Y, Gao S, Zhang Z (1998) The variations of chlorophyll *a* and phaeophytin in the sediment of Jimo shrimp ponds before the outbreak of shrimp disease. *Transactions of Oceanology and Limnology* 1, 66–68.

Scientific Cruises

15+ daily cruises onboard **R/V Trident** of Texas A&M University in Galveston Bay and off Texas coast from October 2017-present

20+ daily cruises onboard **R/V ELAKHA** of Oregon State University off Oregon coast from August 2007 to July 2009

NOAA Ship **McArthur II** (M2-08-07) off coast of Washington-Oregon-California, 11-22 July 2008

R/V TIGLAX (TXs07) of Alaska Maritime in the northern Gulf of Alaska, 4-12 May 2007

R/V THOMAS G. THOMPSON (TN194) of University of Washington in the northern Gulf of Alaska, 4-12 May 2006

R/V WECOMA (WE307a) of Oregon State University in the northern Gulf of Alaska, 5-12 July 2003

15 nine-day cruises onboard **R/V ALPHA HELIX** of University of Alaska in the northern Gulf of Alaska between March and October from 2002 to 2004

Synergistic activities

- Ad-hoc reviewer of Proposals for: *National Science Foundation, United Kingdom-Natural Environment Research Council, New Jersey Sea Grant Consortium*; Panelist for: *NOAA/National Marine Fisheries Services*
- Co-organized a symposium: *Empirical dynamic modeling for fisheries prediction and management*, the 147th American Fisheries Society annual meeting, Tampa, Florida
- U.S. representative on the *North Pacific Marine Science Organization (PICES)* working group (PICES WG37) on zooplankton production