

Dr. RUBAO JI

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EDUCATION

Ph.D. in <i>Biological Oceanography</i> , 2003	University of Georgia
M.Sc. in <i>Computer Science</i> , 2002	University of Georgia
M.Sc. in <i>Marine Ecology</i> , 1994	Ocean University of China
B.Sc. in <i>Marine Biology</i> , 1991	Ocean University of China

EXPERIENCE

2013 – Present:	Associate Scientist w/ tenure, Woods Hole Oceanographic Institution
2011 – Present:	Adjunct Professor, University of Massachusetts - Dartmouth
2013 – Present:	Cooperative Institute for the North Atlantic Region (CINAR) Fellow
2009 – 2013:	Associate Scientist, Woods Hole Oceanographic Institution
2005 – 2009:	Assistant Scientist, Woods Hole Oceanographic Institution
2004.5- 2005.7:	Costal Ocean Institute Postdoctoral scholar, Woods Hole Oceanographic Institution
2004.1- 2004.4:	Research Associate, School for Marine Science and Technology, U. of Massachusetts
1999- 2003:	Research Assistant, Department of Marine Sciences, University of Georgia
1998.3-1998.8:	Visiting Scientist, University of Georgia
1997-1998	Visiting Scientist, Korean Ocean Research & Development Institute
1995-1996:	Visiting Scientist, Institut francais de recherche pour l'exploitation de la mer, France
1997-1998:	Associate Research Scientist, First Institute of Oceanography, China
1994-1997:	Assistant Research Scientist, First Institute of Oceanography, China

RESEARCH INTERESTS

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| <ul style="list-style-type: none">• Coupled biological-physical numerical modeling• Climate change and marine ecosystem response• Zooplankton and larval fish population dynamics• Oceanography in polar and tropical regions | <ul style="list-style-type: none">• Plankton phenology and biogeography• Food web dynamics in coastal oceans• Quantitative fisheries oceanography• Meta-population connectivity |
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SYNOPSIS OF RESEARCH/EDUCATION ACTIVITIES

- PI or co-PI of >25 research projects over the last 11 years.
- Published 55 peer-reviewed research articles (41 in English, 14 in Chinese) as lead- or co-author on topics such as biological-physical coupled modeling, plankton dynamics and food web dynamics.
- Gave >100 presentations in various settings, including invited talks, and international conferences/meetings; co-chair for topical sessions in 5 international conferences.
- Advised a total of 14 students, postdocs and visiting investigators; served as a committee member for 2 students from WHOI and 3 students from UMass-Dartmouth.
- Reviewed over 60 papers from >20 different journals; served as panel member or proposal reviewer for NSF, NOAA, Sea Grant and other regional programs; co-chair for ICES working group. Review Editor for ICES Journal of Marine Sciences.

SELECTED PUBLICATIONS (* Denotes students/postdocs from Ji lab)

- *Li, Y., **R. Ji**, S. Jenouvrier, M. Jin, and J. Stroeve, 2016. Synchronicity between ice retreat and phytoplankton bloom in circum-Antarctic polynyas, *Geophysical Research Letters*, doi: 10.1002/2016gl067937.
- *Li, Y., P. S. Fratantoni, C. Chen, J. A. Hare, Y. Sun, R. C. Beardsley, **R. Ji**, 2015. Spatio-temporal patterns of stratification on the Northwest Atlantic shelf, *Progress in Oceanography*, doi:10.1016/j.pocean.2015.01.003
- *Li, Y., **R. Ji**, P. S. Fratantoni, C. Chen, J. A. Hare, C. S. Davis, and R. C. Beardsley (2014), Wind-induced interannual variability of sea level slope, along-shelf flow, and surface salinity on the Northwest Atlantic shelf, *J. Geophys. Res. Oceans*, doi:10.1002/2013JC009385.
- Ji, R.**, M. Jin, Ø. Varpe, 2013. Sea ice phenology and timing of primary production pulses in the Arctic Ocean. *Global Change Biology*, 19: 734-741. DOI: 10.1111/gcb.12074
- Ji, R.**, C. Ashjian, R. Campbell, C. Chen, G. Gao, C. Davis, G. Cowles, R. Beardsley, 2012. Life history and biogeography of *Calanus* copepods in the Arctic Ocean: An individual-based modeling study. *Progress in Oceanography*, 96(1): 40-56. doi:10.1016/j.pocean.2011.10.001
- Ji, R.**, C. Stegert, C. Davis, 2012. Sensitivity of copepod populations to bottom-up and top-down forcing: a modeling study in the Gulf of Maine region. *Journal of Plankton Research*, 35(1): 66-79. doi: 10.1093/plankt/fbs070
- *Stegert, C. **R. Ji**, N. Li, C. Davis, 2012. Processes controlling seasonality and spatial distribution of *Centropages typicus*: A modeling study in the Gulf of Maine/Georges Bank region. *Journal of Plankton Research*. 34(1): 18-35.
- Ji, R.**, 2011. *Calanus finmarchicus* diapause initiation: new view from traditional life history based model. *Marine Ecology Progress Series*. 440:105-114.
- *Song, H., **R. Ji**, C. Stock, K. Kearney, Z. Wang, 2011. Interannual variability of phytoplankton bloom and plankton productivity in the Nova Scotian Shelf and Gulf of Maine. *Marine Ecology Progress Series*. 426:105-118.
- Ji, R.**, M. Edwards, D.L. Mackas, J. Runge, A.C. Thomas, 2010. Marine plankton phenology and life history in a changing climate: Current research and future directions. *Journal of Plankton Research - Horizon*, 32(10): 1355-1368. doi:10.1093/plankt/fbq062.
- Ji, R.**, C. Davis, C. Chen, R. Beardsley, 2009. Life history traits and spatiotemporal distributional patterns of copepod populations in the Gulf of Maine-Georges Bank region. *Marine Ecology Progress Series*, 384: 187-205
- Ji, R.** C. Davis, C. Chen, D. Townsend, D. Mountain, R. Beardsley, 2008a. Modeling the influence of low-salinity water inflow on winter-spring phytoplankton dynamics in the Nova Scotian Shelf – Gulf of Maine region. *Journal of Plankton Research*, 30(12): 1399-1416.
- Ji, R.**, C. Davis, C. Chen, and R. Beardsley, 2008b. Influence of local and external processes on the annual nitrogen cycle and primary productivity on Georges Bank: A 3-D biological-physical modeling study. *Journal of Marine Systems*, 73: 31-47.
- Ji, R.** C. Davis, C. Chen, D. Townsend, D. Mountain, R. Beardsley, 2007a. Influence of ocean freshening on shelf phytoplankton dynamics. *Geophysical Research Letters*, 34, L24607, doi:10.1029/2007GL032010.
- Ji, R.**, P. J. S. Franks, 2007b. Vertical migration of dinoflagellates: Model analysis of strategies, growth and vertical distribution patterns. *Marine Ecology Progress Series*, 344: 49-61.
- Ji, R.**, C. Chen, P. J. S. Franks, D.W. Townsend, E.G. Durbin, R. C. Beardsley, R.G. Lough, and R.W. Houghton, 2006. Spring bloom and associated lower trophic level food web dynamics on Georges Bank: 1-D and 2-D model studies. *Deep-Sea Research II*, 53(23-24): 2656-2683
- Ji, R.**, C. Chen, P. J. S. Franks, D.W. Townsend, E.G. Durbin, R. C. Beardsley, R.G. Lough, and R.W. Houghton, 2006. The impact of Scotian Shelf Water “cross-over” on the plankton dynamics on Georges Bank: A 3-D experiment for the 1999 spring bloom. *Deep-Sea Research II*, 53(23-24), 2684-2707