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EDUCATIONAL HISTORY

Ph.D. Biology, Dalhousie University (2006)

Dissertation entitled “Algal diets and nutritional requirements during early life-history of the scallops, *Placopecten magellanicus* and *Argopecten irradians*.”

M.Sc. Oceanography, University of Connecticut (2001)

Thesis entitled “The influence of diet on pre-ingestive particle handling in two species of bivalved molluscs: *Mytilus edulis* and *Crassostrea virginica*.”

B.Sc. Honors, Biology, Summa Cum Laude, Salisbury State University (1997)

Thesis entitled “Predation by two species of mud crabs on oyster bar invertebrates in the Chesapeake Bay.”

B.Sc. Environmental/Marine Science, University of Maryland Eastern Shore (1997)

PROFESSIONAL HISTORY

January 2022-present: Supervisory Research Fishery Biologist / Acting Chief, Ecosystems and Aquaculture Division. NOAA Fisheries Service, Northeast Fisheries Science Center.

October 2016-present: Supervisory Research Fishery Biologist / Chief, Aquaculture Systems and Ecology Branch. NOAA Fisheries Service, Northeast Fisheries Science Center, Milford CT.

January 2005- Sept 2016: Research Fishery Biologist; NOAA Fisheries Service, Northeast Fisheries Science Center, Milford CT.

March 2001- December 2004: Guest Worker, National Research Council of Canada, Institute for Marine Biosciences. *Advisor: Dr. V. Monica Bricelj.*

January 1998-February 2001: Research Assistant, University of Connecticut, Department of Marine Science. *Advisor: Dr. J. Evan Ward.*

June – August 1997: Research Intern, National Science Foundation, Research Experience for Undergraduates, Salisbury State University. *Advisor: Dr. J. Evan Ward.*

June – August 1996: Research Intern, National Science Foundation, Research Experience for Undergraduates at Horn Point Environmental Laboratory. *Advisor: Dr. Victor Kennedy.*

AWARDS

NOAA Bronze Medal Award, 2017.

National Marine Fisheries Service Team Member of the Year Award, Supervisor Category, 2016

Castagna Award for Applied Research through the National Shellfisheries Association, 2003.

Industry Partnership Award for best poster presentation, AquaNet II General Meeting, Moncton, New Brunswick, 2002.

Best Student Poster Award at the National Shellfisheries Association Meeting, 1998.

Biology Student of the Year, Salisbury State University, 1997-98.

Presidential Scholarship from Salisbury State University. Award based on academic achievement and leadership ability.

Henson Scholarship recipient from the Richard A. Henson School of Science and Technology at Salisbury State University.

Beta Beta Beta national biological honorary society.

Phi Kappa Phi national honorary society.

PUBLICATIONS

Peer-reviewed

Mercaldo-Allen, Renee; Clark, Paul; Liu, Yuan; Phillips, Gillian; Redman, Dylan; Auster, Peter; Estela, Erick; **Milke, Lisa**; Verkade, Alison; Rose, Julie Exploring video and eDNA metabarcoding methods to assess oyster aquaculture cages as fish habitat. *Aquaculture and Environmental Interactions*. (Accepted)

Shannon Meseck, Renee Mercaldo-Allen, Paul Clark, Catherine Kuropat, Dylan Redman, David Veilleux, and **Lisa Milke** 2021. Effects of ocean acidification on larval Atlantic surfclam (*Spisula solidissima*) from Long Island Sound in Connecticut. *Fishery Bulletin*. 119:66–76 (2021). doi: 10.7755/FB.119.1.8

Mercaldo-Allen R, Clark P, Liu Y, Meseck S, **Milke L**, Redman D, Rose JM, Goldberg R. 2020. Temperature-related changes in species composition of juvenile finfish on a rock reef in Long Island Sound. *Fishery Bulletin* 118(3): 275-283.

Mercaldo-Allen R, Clark P, Liu Yuan, Meseck S, **Milke L**, Redman D (2020) Macrofaunal assemblages on oyster aquaculture and rock reef habitat in Long Island Sound. *North Amer J Aquacult* 82:92–100. DOI: 10.1002/naaq.10127

Liu L, Wikfors, GH, Rose JM, McBride RS, Milke LM, Mercaldo-Allen R (2019) Application of Environmental DNA Metabarcoding to Spatiotemporal Finfish Community Assessment in a Temperate Embayment. *Front Mar Sci* 6:674. doi: 10.3389/fmars.2019.00674.

Hare, J.A. W.E. Morrison, M.W. Nelson, M.M. Stachura, E.J. Teeters, R.B. Griffis, M.A. Alexander, J.D. Scott, L. Alade, R.J. Bell, A.S. Chute, K.L. Curti, T.H. Curtis, D. Kircheis, J.F. Kocik, S.M. Lucey, C.T. McCandless, **L.M. Milke**, D.E. Richardson, E. Robillard, H.J. Walsh, M.C. McManus, K.E. Marancik and C.A. Griswold (2016). A Vulnerability Assessment of Fish and Invertebrates to Climate Change on the Northeast U.S. Continental Shelf. *PLoS ONE* 11(2): e0146756. doi: 10.1371/journal.pone.0146756

Denise L. Breitburg, Joseph Salisbury, Joan M. Bernhard, Wei-Jun Cai, Sam Dupont, Scott C. Doney, Kristy J. Kroeker, Lisa A. Levin, W. Christopher Long, **Lisa M. Milke**, Seth H. Miller Beth Phelan, Uta Passow, Brad A. Seibel, Anne E. Todgham, Ann M. Tarrant (2015). And on top of all that...Coping with ocean acidification in the midst of many stressors. *Oceanography*, accepted.

King, A.L., Jenkins, B.D., Wallace, J.R., Liu, Y., Wikfors, G.H., **Milke, L.M.** and Meseck, S.L. (2015). Effects of CO₂ on growth rate, C:N:P, and fatty acid composition of seven marine phytoplankton species. *Marine Ecology Progress Series*, 537:59-69.

Milke, L.M., V.M. Bricelj, N.W. Ross (2012). Changes in enzymatic activity during early development of bay scallops *Argopecten irradians* and sea scallops *Placopecten magellanicus*. *Aquat Biol*, 2: 207-216.

Parrish, C.C., **L.M. Milke**, V.M. Bricelj (2011). Characterisation of 4 α -methyl sterols in *Pavlova* spp. and postlarval sea scallops, *Placopecten magellanicus*. *Aquaculture*, 311: 261-262.

Milke, L.M., V.M. Bricelj and C.C. Parrish (2008). Three *Pavlova* spp. in unialgal and mixed diets with *Chaetoceros muelleri* for postlarval sea scallops, *Placopecten magellanicus*. *Aquaculture*, 276: 130-142.

Milke, L.M., V.M. Bricelj and C.C. Parrish (2006). Comparison of early life stages of the bay scallop, *Argopecten irradians*: effects of microalgal diets on scallop growth and biochemical composition. *Aquaculture*, 260: 272-289.

Milke, L.M., V.M. Bricelj and C.C. Parrish (2004). Growth of postlarval sea scallops, *Placopecten magellanicus*, on microalgal diets, with emphasis on the nutritional role of lipids and fatty acids. *Aquaculture*, 234(1-4): 293-317.

Milke, L.M. and J. E. Ward (2003). Influence of diet on pre-ingestive particle processing in bivalves. II: Pallial cavity residence times and particle handling on the labial palps. *J. Exp. Mar. Biol. Ecol.* 293: 151-172.

Milke, L.M. and V.S. Kennedy (2001). Mud crabs (Xanthidae) in Chesapeake Bay: Claw characteristics and predation on epifaunal bivalves. *Inverteb. Biol.* 120(1): 67-77.

PROFESSIONAL AFFILIATIONS/ACTIVITIES/SERVICE

Organizer of the Annual Milford Aquaculture Seminar, 2009-present.

Secretary National Shellfisheries Association, 2014-2018.

Co-chair of the Student Endowment Committee of the National Shellfisheries Association, 2011-2017.

Invited member of the Research Subcommittee for the Governor's Council for Agricultural Development for the State of Connecticut, 2012-2015.

Invited Participant in the Agriculture Workgroup for the Adaptation Subcommittee to the Governor's Steering Committee on Climate Change for the State of Connecticut, 2009-2010.

Reviewer for Aquatic Living Resources, Aquaculture, Aquaculture Nutrition, Biochemical Systematics and Ecology, Journal of Experimental Marine Biology and Ecology, Journal of Shellfish Research.