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Education:

- 1990 Ph.D. North Carolina State University, Zoology (Oceanography minor)
- 1984 M.S. North Carolina State University, Ecology
- 1981 B.Sc. (Hons). University of York, Human and Environmental Biology

Professional Background:

- 2011-present Director, Chesapeake Biological Laboratory, University of Maryland Center for Environmental Science
- 2006-present Professor, Chesapeake Biological Laboratory
- 2000-2006 Associate Professor, Chesapeake Biological Laboratory
- 1994-2000 Assistant Professor, Chesapeake Biological Laboratory
- 1990-1994 Post-doctoral Fellow, McGill University, Montreal

Awards and Special Recognition:

- 2015 Paper of the Year Award. American Fisheries Society.
- 2015 Regents Faculty Award of Excellence. University System of Maryland Board of Regents.
- 2014 GEMSTONES Outstanding Mentor Award. GEMSTONES Honors Program, University of Maryland.
- 2008 Graduate Education Award for Excellence in Teaching. MEES Graduate Student Association, University of Maryland
- 2001 President's Award for Excellence in the Application of Science. University of Maryland Center for Environmental Science.
- 1998 Graduate Education Award for Excellence in Teaching. MEES Graduate Student Association, University of Maryland

Selected Relevant Publications

- Glandon, H. L. and T. J. Miller. 2016. No effect of high  $pCO_2$  on juvenile blue crab, *Callinectes sapidus*, growth and consumption despite positive response to concurrent warming. ICES Journal of Marine Science.00:000-000.
- Ludsin, S., K. M. DeVanna Fussell, R. E. H. Smith, M. E. Fraker, L. Boegman, K. T. Frank, T. J. Miller, J. T. Tyson, K. K. Arend, D. Boisclair, S. J. Guildford, R. E. Heckey, T. O. Hook, O. P. Jensen, J. K. Llopiz, C. J. May, R. G. Najjar, L. G. Rudstam, C. T. Taggart and Y. R. Rao. 2016. Managing Great Lakes fisheries under changing ecosystem conditions: a perspective on needed approaches and research. Journal of Great Lakes Research. 00:000-000.
- Buchheister, A., T. J. Miller, E. D. Houde, D. H. Secor, R. J. Latour. 2016. Spatiotemporal dynamics of Atlantic menhaden (*Brevoortia tyrannus*) recruitment along the Northwest Atlantic Ocean. ICES Journal of Marine Science 00:000-000.
- Wiedenmann, J., M. J. Wilberg, A. Sylvia, T. J. Miller. 2015. Autocorrelated error in stock assessment estimates: Implications for management strategy evaluations. Fisheries Research. 172:325-334.

- Buchheister, A., M. J. Wilberg, T. J. Miller and R. J. Latour. 2015. Simulating bottom-up effects on predator prey productivity and consequences for the rebuilding timeline of a depleted population. *Ecological Modelling*. 311(10):48-62.
- Sagarese, S. R., M. G. Frisk, T. J. Miller, K. A. Sosebee, J. A. Musick and P. J. Rago. 2014. Influence of environmental and spatial variables on the habitat selection of spiny dogfish (*Squalus acanthias*): Implications for understanding the species life history strategy and management in the northwest Atlantic. *Canadian Journal of Fisheries and Aquatic Sciences*. 71:567-580.
- Colton, A. R., Wilberg, M. J., V. J. Coles and T. J. Miller. 2014. An evaluation of the synchronization in the dynamics of blue crab populations in the western Atlantic. *Fisheries Oceanography*. 23:132-146.
- Wilt, L. A., J. M. Grebmeier, T. J. Miller and L. W. Cooper. 2014. Caloric content of Chukchi Sea benthic invertebrates: modeling spatial and environmental variation. *Deep Sea Research II*. 102:97-106.
- Peer, A. C. and T. J. Miller. 2014. Climate change, migration phenology and fisheries management interact with unexpected consequences. *North American Journal of Fisheries Management* 34:94-110.
- Frisk, M. G., A. Jordaan and T. J. Miller. 2014. Moving beyond the current paradigm in marine population connectivity: Are adults the missing link? *Fish and Fisheries*. 15:242-254.
- Link, J. S., S. Gaichas, T. J. Miller, T. E. Essington, A. Bundy, J. Boldt, K. F. Drinkwater and E. Moksness. 2012. Synthesizing lessons learned from comparing fisheries production in 13 northern hemisphere ecosystems: emergent fundamental features. *Marine Ecology Progress Series* 459:293-302.
- Holsman, K., T. E. Essington, T. J. Miller, M. Koen-Alonso and W. J. Stockhausen. 2012. Comparative analysis of cod and herring production dynamics across 13 northern marine ecosystems. *Marine Ecology Progress Series*. 459:231-246
- Williams, E. P., A. C. Peer, T. J. Miller, D. H. Secor and A. R. Place. 2012. A phylogeny of the temperate sea basses (Moronidae) characterized by a unique translocation of the ND6 gene. *J. Fish Biol.* 80:110-130.
- Kendall, M. S., T. J. Miller and S. J. Pittman. 2011. Patterns of scale-dependency and the influence of map resolution on the seascape ecology of reef fish. *Marine Ecology Progress Series*. 427:259-274.
- Bunnell, D. B., D. Lipton and T. J. Miller. 2010. The bioeconomic impact of potential new management regulations on the Chesapeake Bay blue crab fishery. *North American Journal of Fisheries Management*. 30:1505-1521
- Miller, T. J., J. A. Blair, T. F. Ihde, R. M. Jones, M. J. Wilberg and D. H. Secor. 2010. An innovative role for scientists in stakeholder centered approaches to fisheries management. *Fisheries*. 35(9):425-433.
- Bauer, L. J. and T. J. Miller. 2010. Spatial and interannual variability in winter mortality of the blue crab (*Callinectes sapidus*) in the Chesapeake Bay. *Estuaries and Coasts*. 33:678-687.
- Salice, C. J., T. J. Miller and G. Roesijadi. 2008. Demographic responses to multi-generation cadmium exposure in two strains of the freshwater gastropod *Biomphalaria glabrata*. *Archives of Environmental Contamination and Toxicology* 56:785-795.
- Miller, T. J. 2007. Contribution of individual-based coupled physical biological models to understanding recruitment in marine fish populations. *Marine Ecology Progress Series*. 347:127-138.

- Nye, J. A., D. D. Davis and T. J. Miller. 2007. The effect of maternal exposure to contaminated sediment on the growth and condition of larval *Fundulus heteroclitus*. *Aquatic Toxicology* 82:242-250.
- Miller, T. J. 2001. Matrix-based modeling of blue crab population dynamics with applications to the Chesapeake Bay. *Estuaries* 24:535-544.
- Heyer, C. J., T. J. Miller, F. P. Binkowski, E. M. Calderone and J. A. Rice. 2001. Understanding maternal effects as a recruitment mechanism in Lake Michigan yellow perch (*Perca flavescens*). *Canadian Journal of Fisheries and Aquatic Sciences*. 58:1477-1487.

### Synergistic activities

1. National Academies of Science Committee to Evaluate the NMFS Marine Recreational Information Program (Jan – Dec 016)
2. National Academies of Science Committee on the California Bay Delta Conservation Plan, 2012
3. National Academies of Science Committee on Water Use in the California Bay-Delta, 2012
4. Member of the NOAA Gulf Coast Ecosystem Restoration Science Program Advisory Working Group (RSPA WG, 2014 - present)
5. Mid-Atlantic Fishery Management Council's Scientific and Technical Committee member (2001-present, Vice-Chair 2009-present);
6. Atlantic States Marine Fisheries Commission Management and Science Committee (2006-present)
7. MD Governor's Appointee to the Maryland Panel on Ocean Acidification (2014-2015);
8. MD Governor's Appointee to the Patuxent River Commission (2015-2018);
9. MD Governor's Appointee to the Board of the Chesapeake Bay Trust (2014-2017);
10. Maryland Sea Grant – External Advisory Board (2014 – present)
11. Chesapeake Bay Stock Assessment Committee (1999- present);
12. Co-chair International Council for the Exploration of the Seas (ICES) Working Group on Recruitment Processes (2002 - 2009).
13. International Council for the Exploration of the Seas (ICES) Working Group on Physical-Biological Interactions (2006 - 2012).

### Educational Contributions

#### **a) Select courses taught**

MEES607	Quantitative Methods	Fall 2013
MEES 608B	Responsible Conduct of Research	Fall 2016
MEES631	Fish Ecology	Spring 2016

#### **b) Academic Service**

University System of Maryland Academic Transformation Assessment Committee (2013-present)  
 Chair, University System of Maryland, Marine, Estuarine and Environmental Sciences Program,  
 Curriculum Revision Committee (2013-2015)

#### **c) Graduate Students and Post-doctoral Fellows: MS: L. J. Bauer, K. K. Brewster-Geisz, B. J. Brylawski, V. Caceres, M. A. Chenery, J. M. Coakley, A. R. Colton, K. L. Curti, J. E. Edwards, E. A. Evarts, M. G. Frisk, C. J. Heyer, O. P. Jensen. A. Kauffman,**

D. Zaveta **current:** *N. Mehaffie*, – **PhD:** L. O. Alade, M. G. Frisk, M. S. Kendall, J. A. Nye, A. Peer. **current:** *R. Brodrik, H. L. Glandon* – **Post-doc** A. Buchheister, D. B. Bunnell, M. G. Frisk, T. Ihde, E. Karakoylu. **Current**

- d) **Advisors:** **MS** – S. Mozley (NCSU, Retired), **Ph.D.** L. B. Crowder (NCSU, now Stanford University), **Post-doc.** W. C. Leggett (McGill, now Emeritus Prof. Queens Univ. Ontario)

#### Other Professional Service

Program Review – Quantitative Fisheries Center, Michigan State University, 2013

Promotion review for Colorado State University, Cornell University, North Carolina State University, Ohio State University, Rutgers University, Simon Fraser University, University of Maine, University of Southern Mississippi, University of Texas.

Proposal Review panel Member, Virginia Sea Grant, 2002- 2008

Manuscripts reviewed for CJFAS, Estuarine, Coastal and Shelf Science, Fishery Bulletin Fisheries Oceanography, Journal of Experimental Marine Biology & Ecology, Marine Ecology Progress Series, Transactions of the American Fisheries Society,

Proposals reviewed for NOAA, Michigan Sea Grant, North Carolina Sea Grant, Hudson River Foundation, Great Lakes Foundation, National Science Foundation