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Education:

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

Professional Background:

- 2026 Visiting Professor, University of Plymouth, School of Biological and Marine Science, UK  
2006- present Professor, University of Maryland Center for Environmental Science Chesapeake Biological Laboratory  
2011- 2023 Director, University of Maryland Center for Environmental Science Chesapeake Biological Laboratory  
2000-2006 Associate Professor, University of Maryland Center for Environmental Science Chesapeake Biological Laboratory  
1994-2000 Assistant Professor, University of Maryland Center for Environmental Science Chesapeake Biological Laboratory  
1990-1994 Post-Doctoral Fellow, Department of Biology, McGill University  
1986-1990 Research Specialist, Center for Great Lakes Studies, University of Wisconsin  
1984-1986 Secondary School Teacher, London Borough of Bexley, London, UK

Awards and Special Recognition:

- 2026 Fellow, Marine Biological Association of the UK.  
2025 Admiral of the Chesapeake, Lifetime achievement award from Maryland Governor.  
2015 Excellence in Fisheries Education. Tidewater Chapter, American Fisheries Society.  
2015 Regents Faculty Award of Excellence. University System of Maryland Board of Regents.  
2014 Mercer Patriarche Award for Best Paper of the Year. American Fisheries Society.  
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:

- Liu, H., T. J. Miller, M. N. Tamburri and M. Xia. 2026. Sediment transport simulations for a dredge placement site in the lower Chesapeake Bay. *Estuarine, Coastal and Shelf Science*. XX:xxx-xxx. <https://doi.org/10.1016/j.ecss.2026.109879>. [UMCES Contribution No. 6507, [UMCES] CBL 2026-042]  
McDonough, J. G., T. J. Miller, T. W. Lee, S. C. Donelan and S. A. Gignoux-Wolfsohn. 2026. Prior exposure to hypoxia alters DNA methylation patterns in eastern oyster. *BMC Genomics* 27:471. <https://doi.org/10.1186/s12864-026-12808-6>. [UMCES Contribution No. 6508, Ref. No. [UMCES] CBL 2026-043]  
Jones, S. A., D. Liang and M. N. Tamburri and T. J. Miller. 2025. Application of local area

- estimation using kriging to provide abundance estimates of blue crab in Chesapeake Bay in support of management of dredged material. *Estuaries and Coasts* XX:xxx-xxx. Doi: <https://doi.org/10.1007/s12237-025-01514-3> [UMCES Contribution No. 6416]
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- Liang, D., T. J. Miller, G. M. Nessler and M. J. Wilberg. 2021. Ranking ecosystem impacts on Chesapeake Bay blue crab (*Callinectes sapidus*) using empirical Gaussian graphical models. *Canadian Journal of Fisheries and Aquatic Sciences*. 78(3):245-254 <https://doi.org/10.1139/cjfas-2019-0439> [UMCES Contribution No. 5xxx]
- Anstead, K, K. Drew, D. Chagaris, M. Cieri, A. Schueller, J. McNamee, A. Buchheister, G. M. Nessler, J. Uphoff, M. J. Wilberg, A. S. Sharov, M. Dean, J. Brust, M. Celestino, S. Madsen, S. Murray, M. Appelman, J. Ballenger, J. Brito, E. Cosby, C. Craig, C. Flora, K. Gottschall, R. J. Latour, E. Leonard, R. Mroch, J. Newhard, D. Orner, C. Swanson, J. Tinsman, E. D. Houde, T. J. Miller, and H. Townsend. 2021. The past, present, and future of forage fish management: a case study of Atlantic Menhaden. *Frontier in Marine Science*. 8:607-657 doi.org/10.3389/fmars.2021.607657 [UMCES Contribution No. 5997]
- Stevens, B. G. and T. J. Miller. 2020. Crab Fisheries. pp 21-53 In G. Lovrich and M. Theil (eds) *The Natural History of the Crustacea*. Vol IX. Fisheries and Aquaculture. Oxford University Press. Oxford, UK. 538 p.,
- Glandon, H. L, K. T. Paynter, C. L. Rowe and T. J, Miller 2019. Resilience of juvenile blue crab, *Callinectes sapidus*, oxygen consumption rates to future predicted increases in environmental temperature and pCO<sub>2</sub> in the mesohaline Chesapeake Bay. *Journal of Shellfish Research*. 38(3): 711-723 doi: 10.2983/035.038.0300 [UMCES Contribution No. 5527]
- Glandon, H. L., H. K. Kilbourne and T. J. Miller. 2019. Winter is (not) coming: warming temperatures will affect the overwinter behavior and survival of blue crab. *PLoS One* 14(7): e0219555. Doi:10.1371/journal.pone.0219555. [UMCES Contribution No. 5644]
- Miller, T. J., C. M. Jones, C. Hanson, S. Heppell, O. P. Jensen, P Livingston, K. Lorenzen, K. Mills, W. Patterson, P. Sullivan and R. Wong. 2018. Scientific considerations informing Magnuson-Stevens Fishery Conservation and Management Act reauthorization. *Fisheries* 43:533-541. DOI: 10.1002/fsh.10179. [UMCES Contribution No. 5544]
- Rains, S. A. M., M. J. Wilberg and T. J. Miller 2018. Evaluation of fishery-induced sperm limitation in Chesapeake Bay blue crab using an individual-based model. *Marine Ecology Progress Series*. 596:127-142. 10.3354/meps12595
- Glandon, H., H. Kilbourne, J Schijf and T. J. Miller. 2018. Counteractive effects of increased temperature and pCO<sub>2</sub> on the integrity of the carapace of juvenile blue crab, *Callinectes sapidus*, from the Patuxent River, Chesapeake Bay. *Journal of Experimental Marine Biology and Ecology* 498:39-45. [UMCES Contribution No. 5434]
- Buchheister, A., T. J. Miller and E. D. Houde. 2017. Evaluating ecosystem-based reference points for Atlantic menhaden. *Marine and Coastal Fisheries: Dynamics, Management and Ecosystem Science*. 9:457-478.. DOI 10.1080/19425120.2017.1360420 [UMCES Contribution No. 5389]
- Goethel, C. L., J. M. Grebmeier, L. W. Cooper and T. J. Miller. 2017. Implications of ocean acidification in the Pacific Arctic: Experimental responses of three Arctic bivalves to decreased pH and food availability. *Deep Sea Res. II: Topical Studies in Oceanogr.* 144:112-124. DOI: 10.1016/j.dsr2.2017.08.013 [UMCES Contribution No. 5528]
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#### Synergistic activities:

1. National Academies of Science. Ocean Studies Board (2019-2024).
2. US Committee for the UN Decade for the Ocean for Sustainable Development (2021-2024)

3. National Academies of Science – Chair of the Committee on Assessing Equity in the Distribution of Fishery Management Benefits: Phase 1 Data and Information Availability (2023-2024)
4. National Academies of Science – Consensus Panel to Review Data Standards for the Marine Recreational Information Program (2025 –2026)
5. Potomac River Fisheries Commission, Statutory Scientific Advisor (2010 – present)
6. Mid-Atlantic Fisheries Management Council – Scientific and Statistical Committee (2001-present, Vice-Chair 2009-2020)
7. Appointee to the Maryland Oyster Advisory Commission (2020 – 2023)
8. Governor’s Appointee to the Patuxent River Commission (2015 – 2022)
9. Governor’s Appointee to the Board of Directors of the Chesapeake Bay Trust (2014 – 2022)

Educational Contributions:

- a) Selected courses taught
 

MEES 601 Applied Environmental Science	Spring 2018 – Spring 2024
MEES 603 Responsible Conduct for Research	Fall 2013 – Fall 2024
MEES 607 Quantitative Methods	Fall 2008 – Fall 2014
MEES 631 Fisheries Ecology	Spring 1996 Spring 2022 (even years)
- b) Academic service
  - Chair, Institutional Animal Care and Use Committee
  - Chair, MEES Curriculum Revision Committee (2013-2015)
  - MEES Program Committee (ex officio)
  - UMCES Accreditation Management Committee (2019-2021)
  - UMCES Accreditation Working Group 3, Chair
  - Organized informal brown bag seminar series. 1994-2005, 2011-2023
- 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. S. A. Jones, A. Kauffman, D. Zaveta
  - PhD: L. O. Alade, R. M. Brodnik, M. G. Frisk, H. L. Glandon, M. S. Kendall, J. A. Nye, A. Peer.
  - Post-doc R. Brodnik, A. Buchheister, D. B. Bunnell, M. G. Frisk, T. Ihde, E. Karakoylu
- d) Advisory: B.Sc. J. H. Lawton, FRS (York, retired), MS S. C. Mozley (NCSU, retired), Ph.D. L. B. Crowder (NCSU, retired), W. C. Leggett, FRSC (McGill, deceased)