

CURRICULUM VITAE



David H. Secor

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Education

Ph.D., University of South Carolina, Biology	1990
M.S., University of South Carolina, Biology	1985
B.A., Macalester College, Biology and Environmental Studies <i>magna cum laude</i>	1983

Professional Background

Visiting Research Professor, Univ. Tokyo Atmosphere and Ocean Research Institute	2023-2024
Univ. System of Maryland Regents Professor, Chesapeake Biological Laboratory	2010-
Professor, Chesapeake Biological Laboratory	2004-
Associate Professor, Chesapeake Biological Laboratory	2000-2004
Assistant Professor, Chesapeake Biological Laboratory	1994-2000
Assistant Research Scientist, Chesapeake Biological Laboratory	1991-1994

Awards and Special Recognition

The Oscar E. Sette Award for Outstanding Marine Fishery Biologist, Am. Fisheries Society	2023
Tidewater Conservation Award, Tidewater Chapter, American Fisheries Society	2023
Best Paper Award, American Fisheries Society (Bangley et al. 2020)	2021
Plenary Speaker, Atlantic Salmon Ecosystems Forum, Quebec City	2019
Plenary Speaker, Ocean Global Change Biology Gordon Research Conf, New Hampshire	2016
Keynote Speaker, Int'l Council for the Exploration of the Seas Conference, Copenhagen	2015
Meritorious Service Award, Tidewater Chapter, American Fisheries Society	2013
Best Published Thesis Research Article, American Inst. of Fishery Research Biologists AIFRB (Kerr et al. 2010)	2012
Best Sci. Paper Award, Japanese Society Fisheries Science (Ariyama and Secor 2010)	2011
University of Maryland System Regents Faculty Award for Scholarship and Research	2010
Lifetime Achievement Award in Otolith Research and Application (2 nd recipient)	2009

Plenary Speaker, International Otolith Symposium, Monterey, California	2009
Keynote Speaker, International Atlantic Herring Symposium, Galway Ireland	2008
Keynote Speaker, International Symposium on Diadromous Fishes, Halifax Canada	2007
Best Published Thesis Research Article (Niklitschek and Secor 2005), AIFRB	2007
Best Published Thesis Research Article (Kraus and Secor 2004), AIFRB	2006
Plenary Speaker, Man and the Ocean, University of Tokyo, Japan	2006
Plenary Speaker, International Flatfish Symposium, Maizuru, Japan	2005
Excellence in Fisheries Education Award, Tidewater Chapter, Am. Fish. Society	2004
Special Recognition, NOAA Ches. Bay Office for work on Fisheries Ecosystem Plan	2004
Foreign Specialist Research Award. National Institute of Fisheries Science, Japan	1996
Electric Power Research Institute Ph.D. Fellow, University of South Carolina	1988
Japanese Ministry of Education Research Fellowship, Faculty of Fisheries, Kagoshima Univ.	1986
Scholarship from the Japan Foundation, University of South Carolina (to study Japanese)	1985
<i>Phi Beta Kappa</i> ; Academic Awards in Biology and Environmental Studies; Macalester College	1983

Advisory Service

International

Co-Chair, International Council for the Exploration of the Seas (ICES) Workshop on the Evaluation of NEA Mackerel Stock Components Management Measures, 2023-2024

ICES Working Group on Northwest Atlantic Mackerel Ecology and Assessment, 2022-2025

Selection Committee, Emperor's Commemorative International Prize for Biology, Japanese Society for the Promotion of Science, 2022

ICES Working Group on Offshore Wind Development and Fisheries, 2020-

ICES Workshop on Education Strategy to Meet Future ICES Advisory Needs, 2020-2023

ICES Expert Working Group, Evaluation of EU Member States' Eel Regulation Reports, 2021

ICES Stock Identification Work Group, 2004-

US Participant, Canada Fisheries and Oceans Atlantic Mackerel Stock Assessment review, 2017

US Delegate to the International Commission for the Conservation of Atlantic Tunas (ICCAT) Atlantic Bluefin Tuna Stock Intersessional Meeting, Madrid, 2016

Rapporteur, Population Structure Group, ICCAT Bluefin Meeting on Biological Parameters Review, Tenerife, 2013

Member US Delegation to ICCAT Atlantic Bluefin Tuna Assessment Meeting, Madrid, 2012

Member US Delegation to ICCAT Species Working Groups, Madrid, 2011

International Review Panel, University of Tokyo Ocean Research Institute, 2007-2008

ICES Eel Work Group, 1999-2018

ICES Workshop on Entrainment, Migration and Life Cycle Diversity, Nantes, France, 2007

Advisory Committee to U.S. Delegation, ICCAT, 2003-2006

Bluefin Tuna Working Group of U.S. ICCAT 2000-2010 (Chair, 2003-2006)

U.S. Delegate, ICCAT Mtg on Bluefin Tuna Mixing, 2004 (Marseilles) and 2006 (Palma de Majorca)

US Fish and Wildlife Service Beluga Sturgeon ESA Proposal Review Panel 2002-2003

Advisor on Wildlife Conservation Society's Campaign, *Caviar Emptor*, 2001

Conv. Int'l Trade of Endangered Sp., Animal Comm. Significant Trade Working Group, 2000

B. National/Regional

Regional Fisheries Commissions

Steering Committee, Strategies to Evaluate Impacts of Offshore Wind on the NEFSC Bottom Trawl Survey, National Marine Fisheries Service (NMFS), 2021-2023

Nominated Member, Science and Statistical Committee, Mid-Atlantic Fishery Management Council, 2009- ; Species lead for Atlantic mackerel; Topic lead for offshore wind industry impacts; Ecosystems Working Group

Southeast Data, Assessment, and Review (SEDAR) Committee for Cobia Stock Structure, 2017
Atlantic Sturgeon Stock Assessment Workgroup, Atlantic States Marine Fisheries Commission (ASMFC), 2013-2016

Rapporteur, NOAA Stakeholder workshop on US Atlantic mackerel fisheries and stock dynamics, Port Judith, 2015

Nominated Member, Atlantic Sturgeon Technical Committee, ASMFC, 1996- (elected Chair 2004-7)
Chair, ASMFC Working Group to Assess Coastal Bycatch of Atlantic Sturgeon, 2007

Chair, ASMFC American Eel Stock Assessment Review Panel, 2006

Member, Ecological Role of Atlantic Menhaden
ASMFC Review Panel, 2004

Member, Atl. Menhaden Stock Assessment
Review Panel, ASMFC, 1999



Conservation

Research Advisor, Responsible Offshore Science
Alliance, 2020-

Expert Panels on fisheries management and
migratory species, Responsible Offshore Development Alliance/BOEM/NMFS Synthesis
of the Science for Fisheries and Offshore Wind, 2020

Expert Panel, Storm Barrier Environmental Effects, National Estuarine Research Reserve System
Science Collaborative, NYC Harbor, 2019

Strategic Advisory Panel, Migratory Connectivity in the Ocean (PI Halpern, Duke Univ.), 2017-2019

Expert Panel, The State of Science on Wildlife and Offshore Wind Energy Development,
NY State Energy Research & Development, 2018

Center for Independent Experts Reviewer for NOAA Pacific Green Sturgeon Recovery Plan, 2012

Center for Independent Experts Reviewer for NOAA Shortnose Sturgeon Assessment, 2009

Panel, Sustainable Ecosystem Inst. Review of USGS program of research on pallid sturgeon, 2007

Panel, Sustainable Ecosystem Inst., Pallid sturgeon population and habitat assessment, 2004-2006

Chair, Sustainable Ecosystem Inst. Rev. Maine's Endangered Atl. Salmon Recovery Program, 2006

Chair, Sustainable Ecosystem Inst., Missouri State Catfish Harvest Policy 2006

Reviewer, NOAA Assessment on Threatened Status of Atlantic sturgeon, 2006

Member, NMFS Shortnose Sturgeon Endangered Species Research Review Panel, 2003

Reviewer, USFWS Assessment on Threatened Status of American eel, 2006

Member, Essential Fish Habitat Working Group, NOAA Northeast Center, 2005-2006

Member, American Fisheries Society/NMFS Endangered Marine Fishes Panel, 1999

Sturgeon Exhibit Development Team, Calvert Marine Museum, 1998-1999

Chesapeake Bay/Maryland

Member, Chesapeake Bay Program Workgroup on Invasive Catfish, 2019-
 Elected Member, Scientific, Technical, Advisory Committee, Chesapeake Bay Program, 2005-2013
 Member, Chesapeake Bay Fisheries Ecosystem Striped Bass Working Group, 2008-2010
 Appointed Member, Fisheries Steering Committee, Chesapeake Bay Program, 2006-2009
 Chair, Coastal Ecosystem Group, MD Governor's Comm. Assessment of Climate Change 2008
 Workgroup, Climate Change in the Chesapeake Bay, Chesapeake Bay Program, 2006-2008
 Chesapeake Bay Program Expert Panel on Oyster Restoration using Native and/or Nonnative
 Oyster, 2008
 Chair, Review of Chesapeake Bay Program Analytical Tools, 2005-2006
 EPA Chesapeake Bay Dissolved Oxygen Criteria Team, 2000-2003
 Member, NOAA Chesapeake Bay Fisheries Ecosystem Management Advisory Panel, 2000-2003
 NOAA DelMarVa Coastal Bay Scientific Advisory Committee, 2000-2006
 Member, Snakehead Technical Committee, Maryland Department of Natural Resources, 2002
 Task Force Chair to evaluate blue crab stock enhancement, MD Sea Grant 2001-2002

C. Science Review

Hudson River Biological Monitoring Program Workgroup, Hudson River Foundation, 2019-2020
 Hawaii Sea Grant Advisory Committee (proposal panel), 2008
 Nominated Member, American Fisheries Society/Estuarine Research Federation Best Science
 Committee, 2002 – 2006
 External Reviewer NOAA Joint Institute of Marine Research Program, Univ. Hawaii, 2004
 NJ Sea Grant Advisory Committee (proposal panel), 2006-2007
 Member, MD Sea Grant Advisory Committee (including proposal panels), 1997-2004
 Chair, Search Committee, Ass't Director MD Sea Grant 2000-2001
 Review Panel, CalFed Delta Science Grants Program, 2005, 2008
 NOAA Sea Grant Essential Fish Habitat Proposal Panel, 2002
 Review Panel, Hudson River Foundation, 2002

D. University Administration

Horn Point Laboratory Director Search Committee, 2022
 Co-Chair, Review of Research Administration at UMCES, 2020
 Chair, UMCES Faculty Senate, 2015-2018
 Chair, UMCES Faculty Working Group on Faculty Standards, 2017
 UMCES President Search Committee, 2016-2017
 Horn Point Laboratory Director Review Committee, 2016
 UMCES Conflict of Interest Committee, 2016
 Ex Officio, UMCES Graduate Faculty Council, 2015-2018
 Representative to the Council of University of System Faculty, Univ. System Maryland, 2015-2018
 USM Senate Chairs Committee, 2015-2018
 UMCES Vice President for Administration Search Committee, 2015

Appalachian Laboratory Director Review Committee, 2010
 Faculty Senator, University of Maryland Center for Environmental Science, 2000-2004; 2010-2014.
 Fisheries Research Complex Building Design Committee, CBL, 2005-2006.
 Chair, CBL Seawater Use Committee, 1995-2015 (lead on 4 NSF facilities improvement awards)

Research

A. Areas of Professional Expertise

Population ecology of marine and estuarine fishes, migration and life cycles, fisheries science and management, offshore wind energy impact assessment

B. Contracts and Grants

Current



UMCES Monitoring Program for US Wind Lease Area OCS-A 0490 (aka “TailWinds”). Project PI and Manager. US Wind, Inc. 2022-2029. \$10,901,312. (2 mo./yr).

Molecular assessment of a stressed Atlantic sturgeon nursery habitat: The Nanticoke River-Marshyhope Creek, Chesapeake Bay. PI. With C. Stence, L. Plough, and I. Park. NOAA Protected Resources. 2022-2025. \$716,199. (1.0 mo./year).

Year 3: Offshore near real-time whale detection buoy (RTWB) monitoring in the Maryland Lease Area. Maryland Energy Administration. 2023-2024. \$307,000. (2.0 mo./yr).

Mid-Atlantic MBON: Dynamic Biodiversity and Telemetry Data for a Changing Coast. Co-PI M. Ogburn (PI), H. Bailey, A. Carlisle, K. Knee, C. Meyer, H. Roarty, P. Theilen. 2024-2028. \$363,000 (UMCES portion). (0.5 mo./year)

International Council for the Exploration of the Sea: Travel Support for Academic Participants, 2019-2024. NSF (through Woods Hole Oceanographic Institute). \$22,554. (0.25 mo./yr)

C. Journal Publications

Google Scholar Profile: n=202, h-index=69; listed below from 2018.
https://scholar.google.com/citations?user=5G4_EvwAAAAJ&hl=en&oi=sra

Arai, K. J.E. Best, C.A. Craig, V. Lyubchich, N.R. Miller, and D.H. Secor. In Press. Early growth and environmental conditions control partial migration of an estuarine-dependent fish. *Marine Ecology Progress Series*.

Coleman, N., D. Fox, A. Horne, N. Hostetter, J. Madsen, M. O'Brien, I. Park, C. Stence, D. Secor. In Press. Spawning run estimates for Atlantic sturgeon's smallest known population. *Marine and Coastal Fisheries*

- Rothermel, ER, MHP O'Brien, JE Best, DA Fox, BI Gahagan, AL Higgs, IA Park, G Wippelhauser, DH Secor. 2024. An Eulerian perspective on habitat models of striped bass occurrence in an offshore wind development area. ICES J Marine Science <https://doi.org/10.1093/icesjms/fsad212>
- Frey, B., V. Lyubchich, M. Zapp Suis, N. Miller, and D. Secor. 2023. Examining the periodicity of annular deposition of otolith microconstituents as a means of age validation. Fishery Bulletin 121:188-198.
- Arai, K., M. Castonguay, V. Lyubchich, D.H. Secor. 2023. Integrating machine learning with otolith isoscapes: reconstructing connectivity of a marine fish over four decades. Plos One 18(5), e0285702
- Barbour, N., A.J. Robillard, G.L. Shillinger, V. Lyubchich, D.H. Secor, W.F. Fagan, and H. Bailey. 2023. Clustering and classification of vertical movement profiles for ecological inference of behavior. Ecospheres 14 (1), 24384
- Orsten, P, D. Ralston, B. Christiaan Prooijen, D. Secor, N. Ganju, Z. Chen, S. Fernald, B. Brooks, K. Marcell. 2023. Increased utilization of storm surge barriers: A research agenda on estuary impacts. Earth's Future 11 (3), e2022EF002991
- Secor, D.H., M.H.P. O'Brien, N. Coleman, A. Horne, I. Park, D. Kazyak, D. Bruce, and C. Stence. 2022. Atlantic sturgeon status in an extremely small spawning habitat: the Nanticoke-Marshyhope Creek Estuary, Chesapeake Bay. Reviews in Fisheries Science and Aquaculture 30: 195-214.
- Aquino, G.A.G., P.C. Cabaitan, and D.H. Secor. 2021. Locomotor activity and growth response of glass eel *Anguilla marmorata* (Anguilliformes: Anguillidae) exposed to different salinity levels. Fisheries Science 87: 253-262.
- Arai, K., M. Castonguay, and D. Secor. 2021. Decadal trends in stock mixing of Northwest Atlantic mackerel evidenced from otolith oxygen and carbon stable isotopes. Scientific Reports (2021) 11: 6667. <https://doi.org/10.1038/s41598-021-86116-2>
- Itakura, H., M.H.P.O'Brien, and D.H. Secor. 2021. Tracking habitat compressions encountered by Chesapeake Bay striped bass through biotelemetry. ICES J Marine Science doi:10.1093/icesjms/fsab009
- O'Brien, M.H.P. and D.H. Secor. 2021. Influence of thermal stratification and storms on acoustic telemetry detection efficiency: a year-long test in the US Southern Mid-Atlantic Bight. Animal Biotelemetry 9(8) <https://doi.org/10.1186/s40317-021-00233-3>
- Secor, D.H., H. Bailey, A. Carroll, V. Lyubchich, M.H.P. O'Brien and C.J. Wiernicki. 2021. Diurnal vertical movements in black sea bass (*Centropristis striata*): Endogenous, facultative, or something else? Ecosphere 12(6):e03616.10.1002/ecs2.3616
- White, S.L. R. Johnson, B.A. Lubinski, M.S. Eackles, D.H. Secor, and D.C. Kazyak. 2021. Stock

composition of the historical New York Bight Atlantic sturgeon fishery revealed through microsatellite analysis of archived spines. *Marine and Coastal Fisheries* 13:701-708.

Arai, K, J.E. Graves, and D.H. Secor. 2020. Sub-annual cohort representation among young-of-the-year recruits of the western stock of Atlantic bluefin tuna. *Fisheries Research* 225 (2020) 105476.

Bangley, C.W., T.H. Curtis, D.H. Secor, M.B. Ogburn. 2020. Search for important habitat for juvenile dusky sharks (*Carcharhinus obscurus*) in the Northwest Atlantic Ocean using acoustic telemetry and spatial modeling. *Marine and Coastal Fisheries* 12:348-363.

Fandel, A.D., A. Garrod, A.L. Hoover, J.E. Wingfield, V. Lyubchich, D.H. Secor, K.B. Hodge, A.N. Rice, and H. Bailey. 2020. Effects of intense storm events on dolphin occurrence and foraging behavior. *Scientific Reports* 10:19247

Hutchison, Z.L., D.H. Secor, and A.B Gill. 2020. The interaction between resource species and electromagnetic fields associated with electricity production by offshore wind farms. *Oceanography* 33(4):96-107.

Kerr, LA, ZT Whitener, SX Cadrin, MR Morse, DH Secor, and W Golet. 2020. Mixed stock origin of Atlantic bluefin tuna in the U.S. rod and reel fishery (Gulf of Maine) and implications for fisheries management. *Fisheries Research* 224: <https://doi.org/10.1016/j.fishres.2019.105461>

Markin, E.L. and D.H. Secor. 2020. Growth of juvenile Atlantic sturgeon (*Acipenser oxyrinchus oxyrinchus*) in response to dual-season spawning and latitudinal thermal regimes. *Fishery Bulletin* 118:74-86.

Redding, S.G., L.W. Cooper, M. Castonguay, C. Wiernicki, and D.H. Secor. 2020. Northwest Atlantic mackerel population structure evaluated using otolith ¹⁸O composition. *ICES Journal of Marine Science*. 77(7-8):2582-2589.

Rothermel, E.R., M.T. Balazik, J.E. Best, D.A. Fox, B.I. Gahagan, D.E. Haulsee, A.L. Higgs, M.H.P. O'Brien, M.J. Oliver, I.A. Park, and D.H. Secor. 2020. Comparative migration ecology of striped bass and Atlantic sturgeon in the US Southern Mid-Atlantic Bight flyway. *Plos One* 15(6): e0234442.

Secor, D.H. M.H.P O'Brien, B.J. Gahagan, J.C Watterson, and D. Fox. 2020. Differential migration in Chesapeake Bay striped bass. *Plos One* 15: e0233103.

Secor, D.H. M.H.P. O'Brien, B.I. Gahagan, D. Fox, A. Higgs, and J. Best. 2020. Multiple spawning run contingents and population consequences in migratory striped bass *Morone saxatilis*. *Plos One* 15(11):e0242797

Wiernicki, CJ, D Liang, H Bailey, and DH Secor. 2020. The effect of swim bladder presence and morphology on sound frequency detection for fishes. *Reviews in Fisheries Science and Aquaculture* <https://doi.org/10.1080/23308249.2020.1762536>

Wiernicki, C. M.O. Brien, F. Zhang, V. Lyubchich, M. Li and D. Secor. 2020. The recurring role of storm disturbance on black sea bass (*Centropristis striata*) movement behaviors in the Mid-Atlantic Bight. Plos One

Dunn, D.C. and 70 co-authors. 2019. The importance of migratory connectivity for global ocean policy. Proceedings of the Royal Society B <http://dx.doi.org/10.1098/rspb.2019.1472>

Lennox RJ and 29 co-authors. 2019. One hundred pressing questions on the future of global fish migration science, conservation, and policy. Frontiers in Ecology and Evolution <https://doi.org/10.3389/fevo.2019.00286>

Rooker, J.R., M.A. Dance, R.J.D. Wells, M.J. Ajemian, B.A. Block, M.R. Castleton, J.M. Drymon, B.J. Falterman, J.S. Franks, N. Hammerschlag, J.M. Hendon, E.R. Hoffmayer, R.T. Kraus, J.A. McKinney, D.H. Secor, G.W. Stunz, J.F. Walter. 2019. Population connectivity of pelagic megafauna in the Cuba-Mexico-United States Triangle. Scientific Reports. 9:1663.

Secor, D.H., F. Zhang, M. O'Brien, and M. Li. 2019. Ocean destratification and fish evacuation caused by a Mid-Atlantic Tropical Storm. ICES Journal of Marine Science 76:573-584.

Itakura, H., K. Arai, K. Kaifu, K. Shirai, A. Yoneta, Y. Miyake, D.H. Secor, and S. Kimura. 2018. Distribution of wild and stocked Japanese eels in the lower reaches of the Tone River catchment revealed by otolith stable isotope ratios. Journal of Fish Biology 93:805-813.

Gallagher, B. P. Piccoli, and D. Secor. 2018. Ecological carryover effects associated with partial migration in white perch (*Morone americana*) within the Hudson River Estuary. Estuarine, Coastal and Shelf Science 200:277-288

Gallagher, B. and D. Secor. 2018. Intensified environmental and density-dependent regulation of white perch recruitment after an ecosystem shift in the Hudson River Estuary. Canadian Journal of Fisheries and Aquatic Sciences 75:36-46.

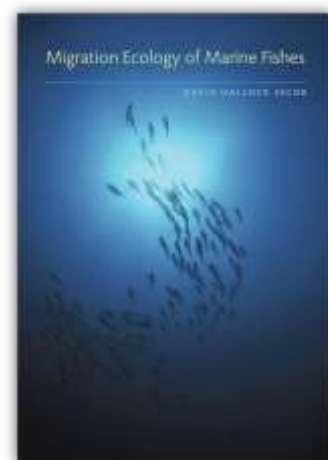
C. Books

Secor, D.H. 2015. Migration Ecology of Marine Fishes. Johns Hopkins University Press. 304 p.

Hidalgo, M., D.H. Secor, and H.I. Browman [ed.s]. 2016. Seascape Ecology. ICES Journal of Marine Science 73(7).

Rooker, J.R. and D.H. Secor [ed.s]. 2005. Connectivity in the Life Cycles of Fishes that Use Estuaries. Estuaries, Coastal and Shelf Research 64(1). 148 p.

Van Winkle, W., P.J. Anders, D.H. Secor, and D. Dixon. [ed.s]. 2002. Biology, Management, and Protection of North American Sturgeon. Am. Fish. Soc. Symp. 28. 258 p.



Secor, D. H., J. M. Dean and S. E. Campana [eds.]. 1995. Recent Developments in Fish Otolith Research. Belle W. Baruch Library in Marine Sciences Number 19. University of South Carolina Press, Columbia, S.C. 735 pp.

Secor, D.H., J.M. Dean, and E.H. Laban. 1991. Manual for Otolith Removal and Preparation for Microstructural Examination. Electric Power Research Institute and Belle W. Baruch Institute, Columbia, SC. 85 pp.

D. Editorships

Editor, ICES Journal of Marine Science, 2012-2023

Associate Editor, Estuaries, 1997-2001

Associate Editor, North American Journal of Fisheries Management, 1994-1996

E. Memberships in Professional Societies

American Association for the Advancement of Science, 1992-

American Fisheries Society, 1988-

Tidewater Chapter of the American Fisheries Society [*President 1996-1997*]

Early Life History Section, American Fisheries Society [*Secretary 1997-2000*]

Teaching, Mentoring and Training

Marine Estuarine and Environmental Studies Program
Graduate Faculty, University of Maryland Center for
Environmental Science/University of Maryland College Park,
1998-



A. Education Administration

Middle States Commission on Higher Education Accreditation
(MSCHE) UMCES Self-Study Report, Lead, Chapter 7
(Standard 10), 2015.

Co-Chair, Ecology-Fisheries Curriculum Development Committee, MEES Program, 2005-2006.

MEES Program Committee, 1999-2009.

Co-Chair Fisheries Area of Specialization, MEES Program, 1999-2009.

Admissions Committee, Fisheries Area of Specialization, MEES Program, 1999-2009.

B. University System of Maryland Courses Taught: MEES Graduate Program – all 600 level

Marine Fisheries Science and Management (Lead instructor; 3-credit course with Dr. M. Wilberg) offered over Interactive Video Network to University of Maryland System even fall semesters (taught Fall 2008, 2010, 2012). Enrollment 10-20.

Fish Ecology (Co-instructor; 3-credit course with Dr. T. Miller) offered over Interactive Video Network to University of Maryland System even spring semesters (taught even years, Spring 1994-

2024). Enrollments 5-25.

C. Thesis Advisor (26)

Student, Degree, Year	Career: Past and Current Positions
Stevenson, Jill T. MS, 1997	Senior Consultant, Oceans Team, Council Fire, Benefit LLC
Zlokovitz, Erik R. M.S., 1999	Fisheries Scientist, MD Department of Natural Resources
Niklitschek, Edwin J Ph.D., 2001	Professor, University de Los Lagos (Puerto Montt, Chile)
Morrison, Wendy E. M.S., 2001	Ph.D. GA Tech. Univ.; Scientist, Sustainable Fisheries NMFS
Kraus, Richard T. Ph.D., 2003	Director, USGS Lake Erie Biological Station
Takata, Lynn T M.S., 2004	Senior Environmental Scientist, Delta Science Program, California
Murphy, Robert F. M.S., 2005	Director, Ecosystems Solutions Inc.
Callihan, Jody L. M.S., 2005	Ph.D., LA State Univ.; Scientist, Federal Energy Regulatory Comm.
Puckett, B.J., M.S. 2005.	Ph.D. NC State Univ.; Director, NC National Estuarine Res. Reserve.
Woodland, Ryan A. M.S., 2005	Ph.D. UMCES (see below).
Kerr, Lisa A. Ph.D., 2008	Associate Professor, School of Marine Science, Univ. Maine
Deanna Hanks, M.S. 2009	Faculty Research Assistant II, UMCES
Kari Fenske, M.S., 2009	Ph.D., Univ. Washington, Scientist, NMFS Alaska Fish. Sci. Center
Woodland, Ryan A. Ph.D., 2010	Associate Professor, CBL, UMCES
Chris Conroy. M.S. 2011	PhD, NE University; Assistant Professor, Univ. of New Haven
Mike O' Brien, M.S. 2013	Faculty Research Assistant IV, CBL, UMCES
Matthew Siskey, M.S. 2015	PhD, Stony Brook University; Washington State Biologist
Alexandra Atkinson, M.S. 2016	NMFS Scientist, National Fish Habitat Partnership, Silver Spring
Brian Gallagher, M.S. 2016	Ph.D. Candidate, Carleton Univ.
Stephan Redding, M.S. 2017	NMFS Scientist, Sustainable Fisheries, Silver Spring
Erin Markin, Ph.D. 2017	NMFS Scientist, Protected Resources, Silver Spring
Ella Rothermel, M.S. 2020	Staff scientist for Partnership for the Delaware Estuary
Caroline Wiernicki, M.S. 2020	PhD. Candidate, Univ. Delaware
Ben Frey, M.S., 2022	Coastal Habitat Biologist, USFWS, Lansing, MI
Nicholas Coleman, M.S., 2022	NOAA Contractor, Sustainable Fisheries
Kohma Arai, Ph.D., 2023	Research Scientist, Univ. California, Davis

D. Advisory Committee Memberships (all graduated by the University of Maryland Marine, Estuarine and Environmental Studies Graduate Program, unless otherwise indicated).

Past student committees (43)

Kellogg, Loren, M.S. (1995); Schutz, Joseph, M.S. (1996); Ashley, Jeff, Ph.D. (1998); Tate, Anne, M.S. (1998); Veinott, G. Ph.D., Trent Univ. Watershed Ecosystems Program, Canada (External Examiner, 1998); Hall, Matthew, M.S. (1999); Ju, Se-Jong, M.S. (1999); Schweighoffer, Mona, M.S. (1999); Maki, Kristin, M.S., Virginia Institute of Marine Science (2000); Sadler, Edie, M.S. (2000); Leaner, Joy, Ph.D. (2001); Steinbacher, Joe, M.S. (2001); Ju, Se-Jong, Ph.D. (2002); Toasperm, Megan, M.S. (2003); Dowgallio, Michael, Ph.D. (2004); Elsdon, Travis, Ph.D., Univ. Adelaide (External Examiner, 2004); Vanisko, Jessica, M.S. (2004); Bauer, Laurie, M.S. (2005); Andrea Findeisen, M.S. (2006); Egnotovitch, Michael, Ph.D (2006); Rodney, William, Ph.D. (2007); Liebert, Daniel, M.S. (2007); Cooney, Sean, M.S. (2008) ; Martino, Ed, PhD (2008) ; Andrews, Allen, Ph.D., Rhodes Univ. (External Examiner, 2008); Grant, Evan, Ph.D. (2009); Davis, Carys Ann, Ph.D., Galway-Mayo Inst. Technology, Ireland (External Examiner 2009); Chandler, Allison, M.S. (2010);

Kelly, Chris, Ph.D (2011); Schlenger, Adam. M.S., 2012; Peeomiller, Bhae-Jin, LMRCSC, M.S. Univ. MD Eastern Shore (2012); Miguel Araya, Ph.D., Univ. De Los Lagos (External Examiner, 2014); Altenritter, Matthew, Ph.D. Univ. Maine (2015); Aimee Hoover (2017); Mauer, Leah , M.S. (2017); Wilson, Justin, LMRCSC, M.S. Univ. MD Eastern Shore (2017); Mateo, Maria, Ph.D., National Research Inst. Science Techn., Cestas France (External Examiner 2017); Price, Andre, LMRCSC, M.S. Univ. MD Eastern Shore (2019); Phillips, Olivia, M.S., VA Inst. Marine Science (2019); Hanif, Amar, LMRCSC, Ph.D. (2019); Goldyn Aquino, M.S. (2020; External, University of Philippines); Amber Fandel, M.S. UMCES/MEES; Nicole, Barbour, Ph.D. UMCES/MEES (2022); Cait Riley, M.S. (External, Univ Massachusetts Dartmouth SMAST (2022); Ben Colbert, Ph.D. UMCES/MEES (2024).

Current student committees (7)

Brodnick Reed, Ph.D. UMCES/MEES; Samara Nehemia, Ph.D. UMCES/MEES; Luke DeGroot, Ph.D. UMCES/MEES; Alex Vaislvil, Ph.D. (External, Oklahoma State Univ); Robert Bell, Ph.D. UMCES.MEES; Samantha Alaimo, Ph.D. (External, Rutgers University); Ben Gahagan, Ph.D. (External, University of Massachusetts, Amherst).

E. Research Scientists and Internships Supervised and Hosted

Scientists

Ms. Sandy Sutherland, NMFS Northeast Fisheries Science Center, 2018
 Ms. Sarah Turner, Graduate Student, Syracuse University, 2013
 Mr. Matthew Alternitter, Graduate Student, University of Maine, 2013
 Mr. Robert Allman and Ms. Beverly Barret, Scientist, NMFS Panama City Laboratory, 2010, 2011
 Mr. Dheeraj Busawon, Scientist, Canada Fisheries and Oceans, New Brunswick Biol.Station, 2011
 Ms. Alejandra Lafon Vilugron, Scientist, Univ. Southern Chile, 2011

Post-Doctoral Scientists

Dr. Hikaru Itakura, JSPS Japanese Science Fellow, Research Associate, Chesapeake Biological Laboratory, 2019-2021. Currently Assistant Professor, University of Tokyo.
 Dr. Zikri Arslan, Research Associate, Chesapeake Biological Laboratory, 2002-2003. Currently Senior Scientist, USGS.
 Dr. Jay R. Rooker, Research Associate, Chesapeake Biological Laboratory, 1998. Currently Regents Professor at Texas A&M University Galveston.

Faculty Research Assistants

Mr. Evan Kostelecky (2023-); Ms. Caroline Tribble (2023-); Ms. Kirsten Silva (2022-); Ms. Jamie Testa (2022-2023); Mr. Michael O Brien (2013-); Ms. Caroline Wiernicki (2019); Ms. Ellie Rothermel (2020); Mr. Ben Gahagan (2012); Ms. Rebecca Wingate (2004 – 2010; 2023-); Mr. Scott McGuire (2002-2004); Mr. Steve Larsen (1998-2001); Mr. Troy Gunderson (1996-1999); Mr. Mark Trice (1994-1995)

International Visiting Graduate Students

Mr. Miguel Araya, Visiting Ph.D. Candidate, Univ. de Los Lagos, Chile, 2011.
 Mr. Narisato Hirai, Visiting Ph.D. Candidate, Kyoto University, 1999-2001.
 Mr. Taro Ohta, Visiting Ph.D. Candidate, Kyoto University, 1997.

Undergraduate Summer Research Interns

Maryland Sea Grant Research Experience for Undergraduate Internship Program: Guy, Lisa; Jenkins, Cherie; Kaminski, Bill; Karlsson, Krista; Lusk, Matthew, McDaniel, Kathleen; Smith, Jill; Turner, David; Wedge, Madeline; Vallentine, Ellen

Bowie State Science, Engineering and Mathematics Fellow: Audifferen, Olubukonla; Norman, Kim.

Sabbatical Host

Dr. Pierre Petitgas, French Inst. For Exploitation of the Sea (IFREMER), Nantes France, 2009-2010.

Dr. T. Arai, University of Tokyo, 2005-2006.

Dr. Ryo Kimura, National Research Institute of Fisheries Science, Yokohama, Japan, 1998-1999

Outreach

A. Commentaries

In the Chesapeake, summertime striped bass fishing is in hot water. Guest Commentary with M Gary. Bay Journal, July 2023.

AquaCon salmon factory jeopardizes Maryland's only sturgeon population. Guest Commentary, Baltimore Sun, August 2022.

AquaCon's proposed industrial salmon farm represents a major environmental risk for Maryland. Alan Girard, lead author. Maryland Matters, August 2022

The skinny on shallow water: protected but vulnerable. The Bay Journal, July 2022

Atlantic sturgeon: Not the ghosts I once thought they were. The Bay Journal, Dec 2021



B. Public Testimony

Maryland Department of Environment Public Hearing on AquaCon discharge permit. Federalsburg, MD. August 2022.

Caroline Commissioners Open Comment period on status of AquaCon siting (submitted letter). December 2022.

C. Public Media Interviews (since 2022)

Blue catfish stomachs reveal ecological toll of their appetite. Jeremy Cox. Bay Journal Nov 2023.

Warming waters bring new 'tropical visitors to the Bay. Jeremy Cox. Bay Journal. Oct. 2023.

The importance of being earnest, scientifically speaking. Tom Horton. Bay Journal. Feb. 2023.

When a massive project threatened endangered sturgeon, science intervened. Jeremy Cox. Bay Journal. Nov. 2022.

Striped bass no longer threatened by overfishing, study concludes." Tim Wheeler. Bay Journal. Nov. 2022.

Maryland's juvenile rockfish count below average for fourth year in a row. C. Condon. Baltimore Sun. Oct 2022.
Salmon farm developer withdraws discharge permit request amid sturgeon concerns. Bay Journal. Oct 2022.
An egregious gamble with Chesapeake sturgeon. Tom Horton. Bay Journal. September 2022.
Controversial fish farm could be coming to a pristine Chesapeake Bay tributary. S Broom, WUAS9TV Sep 2022.
Maryland regulators tentatively approve wastewater permit for massive salmon farm. Bay Journal. Aug 2022.
Massive salmon factory could harm wild sturgeon, residents fear. Jeremy Cox. Bay Journal. Aug 2022.
Environmentalists fear a new salmon farm will mean the end of sturgeon in MD. J McCord. WYPRNews 2022.
The first farmed Chesapeake salmon versus the last of its sturgeon? Scott Dance, Baltimore Sun. August 2022.

Data Sharing

Distributed > 3 10⁶ telemetry data records to >30 investigators throughout the US. Oversaw R database tool (TelemetryR) development to implement more efficient biotelemetry data sharing.

Curated Datasets

Secor, DH, O'Brien MHP, and Wiernicki CJ. "UMCES Black Sea Bass & Offshore Construction." Mid-Atlantic Acoustic Telemetry Observing System. URL: matos.asascience.com/project/detail/97

Secor DH, O'Brien MHP, Rothermel ER, and Bailey, H. "UMCES BOEM Offshore Wind Energy." Mid-Atlantic Acoustic Telemetry Observing System. URL: matos.asascience.com/project/detail/87

Secor DH, O'Brien MHP. "UMCES Potomac River Striped Bass Migration." Mid-Atlantic Acoustic Telemetry Observing System. Mid-Atlantic Telemetry Observing System. URL: matos.asascience.com/project/detail/60.

Secor DH, O'Brien MHP, Best JE, Higgs, AH. "UMCES-NYSDEC Hudson Striped Bass Spawning." Mid-Atlantic Acoustic Telemetry Observing System. URL: matos.asascience.com/project/detail/127.

Deposited >1000 Atlantic bluefin tuna otolith composition records into ICCAT's database (GBYP Program) in support of mixed stock assessment and simulation models.

Shared full baseline database and algorithm on Atlantic bluefin tuna otolith composition to permit classification of unknown bluefin tuna stock mixtures.

http://www.int-res.com/articles/suppl/m504p265_supp.xls