

# ANDRIJ Z. HORODYSKY, PhD

## Associate Professor

Dept. of Marine & Environmental Science  
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## RESEARCH INTERESTS

I am a broadly-trained aquatic ecologist with research interests centered on the ecophysiology, behavior, and conservation of fishes and other living marine resources affected by anthropogenic activities in the world's aquatic habitats. I use comparative interdisciplinary approaches that integrate basic and applied laboratory, field, and quantitative techniques with tools ranging in scale from microscopes to satellites. My research interests manifest in basic and applied contexts, with emphases on: (i) providing mechanistic behavioral and ecophysiological insights into the relationships between form, function, and the environment, (ii) identifying mechanisms through which climate change, ocean acidification, and anthropogenic interactions affect living aquatic resources and stakeholders, and (iii) increasing fisheries post-release survival. I am passionate about increasing the participation of underrepresented students and fisheries stakeholders to conserve, connect with, and protect marine environments.

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## EDUCATION

### Doctor of Philosophy, Marine Science 2009

Advisors (co): Drs. Robert J. Latour and John A. Musick  
Dissertation: *Comparative sensory and energetic ecology of sciaenid fishes and their competitors in Chesapeake Bay, Virginia*

VIMS, College of William & Mary  
Dept. of Fisheries Science

### Master of Science, Marine Science 2004

Advisor: Dr. John E. Graves  
Thesis: *Survival and habitat preferences of white marlin (*Tetrapturus albidus*) released from the western North Atlantic recreational fishery*

VIMS, College of William & Mary  
Dept. of Fisheries Science

### Bachelor of Science, Marine Science/Marine Biology 2000

Advisor: Dr. William A. Szelistowski  
Thesis: *Larval ingress and subadult mortality in two populations of ladyfish (*Elops*) (*Teleostei: Elopidae*) in the Indian River Lagoon, FL*

Eckerd College

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## PROFESSIONAL EXPERIENCE

Sept 2019	to	Present	Associate Professor (Tenured Spr. 2021), Hampton University
Sep 2014	to	Aug 2019	Assistant Professor (Tenure Track), Hampton University
Sept 2012	to	Aug 2014	Assistant Professor (Annual), Hampton University
Sep 2009	to	Aug 2012	Assistant Research Professor, NOAA LMRCS – Hampton University
Jun 2004	to	Aug 2009	Graduate Assistant (PhD), VIMS, William & Mary
Aug 2001	to	May 2004	Graduate Assistant (MS), VIMS, William & Mary
Feb 2000	to	Aug 2001	Fisheries Biologist, Florida Marine Research Institute
Jun 1999	to	Sept 1999	Research Staff, Florida Marine Research Institute

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## ACADEMIC CONTRIBUTIONS (2009-present) \*undergraduate, †graduate

### COURSES TAUGHT (course number, title, institution, year)

BIO 518\*/618† Ichthyology: Fish and Fisheries. Hampton University, 2010, 2013, 2016, 2019, 2022  
BIO 525\*† Conservation Biology, Hampton University, 2014  
MES 101\* First Year Seminar. Hampton University, 2012.  
MES 130\* Introduction to Environmental Science, Hampton University, 2012-21.  
MES 131\* Laboratory Techniques in Environmental Science, Hampton University, 2013-19.  
MES 201\* Mid-Atlantic Watershed Biodiversity, Hampton University, 2016-19.

MES 210\* Biometry. Hampton University, 2013-21.  
MES 404\* Senior Thesis II, Hampton University, 2021.  
MES 408\* Resource Management. Hampton University, S 2022.  
MES 518\* Ichthyology: Fish and Fisheries. Hampton University, 2010, 2013, 2016, 2019, 2022  
UNV 290 H7\* Global Climate Change. Hampton University, 2012-15.  
UNV 290 H5 Scientific Ethics, Hampton University, 2020-21.

#### STUDENTS MENTORED/SUPERVISED IN RESEARCH

2021 Maria Henson\* (HU): bioenergetics and fish growth  
2020 Jonathan Nash\* (HU) and Pa-Shun Hawkins (HU): ocean acidification & sensory biology  
2019 Janelle Layton\* (HU) and Isaiah Milton\* (HU): ocean acidification & molecular biology  
2018 Sierra Williams-McLeod\* (HU), Caroline Turner\* (JMU): ocean acidification & sensory biology  
2017 Kendra Dorsey\* (HU), Olivera Stojilovic\* (HU): ocean acidification & sensory biology  
2016 Michaela McFarland\* (HU): energetics & fish growth  
2015 Larry Redd, Jr<sup>†</sup> (HU), Danielle Budden\* (HU): aquaculture  
2014 Larry Redd, Jr<sup>†</sup> (HU), Malik Breland\* (HU): aquaculture  
2013 Larry Redd, Jr<sup>†</sup> (HU), Krista Kraskura\* (HU): aquaculture  
2012 Malik Breland\* (HU) and Cedric Shamley<sup>†</sup> (HU): sensory ecophysiology & behavior  
2011 Elizabeth Seagroves\* (HU), Krysten Rybyzyske\* (UMES): sensory ecophysiology & behavior  
2010 Kendyl Crawford\* (HU), Joe'Ella Caddle\* (UMES): sensory ecophysiology

#### POSTDOCTORAL ASSOCIATES MENTORED/SUPERVISED IN RESEARCH

2020 Dr. Cara C. Schweitzer (HU): neurosensory implications of ocean acidification

#### GRADUATE COMMITTEE SERVICE

MS: *As Advisor and Committee Chair:* Larry Redd Jr (HU)

*As external member:* Emily Loose (VIMS), Ben Barker (Nova SE), Krista Kraskura (Towson),  
Douglas Jensen (VIMS)

PhD: *As external member:* CJ Sweetman (VIMS)

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## PEER-REVIEWED PUBLICATIONS

### JOURNAL ARTICLES IN PRINT/PRESS (31) \*undergraduate student, <sup>†</sup>graduate student

- [31] **Horodysky AZ**, C. Schweitzer, and R.W. Brill. *In Press*. Applied Sensory Physiology and Behaviour, Ch 2 *In:* Fanguie N, Cooke SJ, Cech JJ, Eliason E, Brauner C and Farrell AP (eds). Fish Physiology Volume 39A: Conservation Physiology for the Anthropocene – A Systems Approach.
- [30] Elmer<sup>†</sup> L, C Madliger, D Blumstein, C Elvidge, E Fernandez-Juricic, **A Horodysky**, N Johnson, L McGuire, R. Swaisgood and S. Cooke. 2021. Exploiting common senses: sensory ecology meets wildlife conservation and management. *Conservation Physiology*. 9(1):coab002. doi:10.1093/conphys/coab002
- [29] Schweitzer<sup>†</sup> C, **A Horodysky**, A Price<sup>†</sup>, and B Stevens. 2020. Impairment indicators for predicting delayed mortality in black sea bass (*Centropristis striata*) discards within the commercial trap fishery. *Conservation Physiology*. 8(1): coaa068.
- [28] Hasenei<sup>†</sup> A, D Kerstetter, **AZ Horodysky**, RW Brill. 2020. Physiological limits to inshore invasion of Indo-Pacific lionfish (*Pterois* spp.); insights from the functional characteristics of their visual system and hypoxia tolerance. *Biological Invasions*. 22: 2079-2097
- [27] Lennox RJ, Paukert P, Aarestrup K, Auger-Méthé M, Baumgartner LJ, Birnie-Gauvin K, Bøe K, Brink K, Brownscombe JW, Chen Y, Davidsen JG, Eliason EJ, Filous A, Gillanders BM, Helland IP, **Horodysky AZ**, Januchowski-Hartley SR, Lowerre-Barbieri SK, Lucas MC, Martins ES, Murchie KJ, Pompeu P, Power M, Raghavan R, Rahel FJ, Secor DH, Thiem JD, Thorstad EB, Ueda H, Whoriskey FG, Cooke SJ. 2019. 100 pressing questions on the future of global fish migration science, conservation, and policy. *Frontiers in Ecology and Evolution*. 7:286. doi: 10.3389/fevo.2019.00286

- [26] Brill RW, **AZ Horodysky**, AR Place, AM Watson<sup>†</sup>, R Reimschuessel. 2019. Effects of dietary taurine level on visual function in European sea bass (*Dicentrarchus labrax*). *PLoS ONE*. 14(6): e0214347.
- [25] Barker<sup>†</sup> BD, **AZ Horodysky**, DW Kerstetter. 2018. Hot, or not? Comparative behavioral thermoregulation, critical temperature regimes, and thermal tolerances of the invasive lionfish *Pterois* sp. versus native western North Atlantic reef fishes. *Biological Invasions*. 20:45-58.
- [24] Lennox<sup>†</sup> RJ, J Alos<sup>†</sup>, SJ Cooke, **AZ Horodysky**, T Klefoth<sup>†</sup>, C Monk<sup>†</sup>, R Arlinghaus. 2017. What makes fish vulnerable to capture by hooks? A conceptual framework and a review of key determinants. *Fish and Fisheries*. 18: 986-1010.
- [23] Cooke SJ, RJ Lennox<sup>†</sup>, SD Bower<sup>†</sup>, **AZ Horodysky**, MK Trembl, E Stoddard, LA Donaldson & AJ Danylchuk. 2017. Fishing in the dark – the science and management of recreational fisheries at night. *Bulletin of Marine Science*. 93(2): 519-538.
- [22] Hilton EJ, B Kynard, MT Balazik, **AZ Horodysky**, & CB Dillman. 2016. Review of the biology, fisheries, and conservation status of the Atlantic Sturgeon, *Acipenser oxyrinchus oxyrinchus* Mitchell, 1815. *Journal of Applied Ichthyology* (2016): 1-37. DOI: 10.1111/jai.13242.
- [21] Ward<sup>†</sup> TD, DA Algera<sup>†</sup>, AJ Gallagher, E Hawkins, **A Horodysky**, C Jørgensen, SS Killen, DJ McKenzie, JD Metcalfe, MA Peck, M Vu & SJ Cooke. 2016. Understanding the individual to implement the ecosystem approach to fisheries management. *Conservation Physiology*. 4(1):cow005.
- [20] **Horodysky AZ**, SJ Cooke, JE Graves & RW Brill. 2016. Fisheries conservation on the high seas: linking conservation physiology and fisheries ecology for the management of large pelagic fishes. *Conservation Physiology*. 4(1):cov059
- [19] **Horodysky AZ**, SJ Cooke & RW Brill. 2015 Physiology in the service of fisheries science: Why thinking mechanistically matters. *Reviews in Fish Biology and Fisheries*. 25:425-447.
- [18] Graves JE & **AZ Horodysky**. 2015. The challenges of estimating post-release mortality of istiophorid billfishes caught in the recreational fishery: A review. *Fisheries Research*. 166:163-168.
- [17] Braun<sup>†</sup>, CD, MB Kaplan<sup>†</sup>, **AZ Horodysky** & JK Llopiz. 2015. Satellite telemetry reveals physical processes driving billfish behavior. *Animal Biotelemetry*. 3:2.
- [16] Kalinoski<sup>†</sup> M, A Hiron, **A Horodysky** & R Brill. 2014. Spectral sensitivity, luminous sensitivity, and temporal resolution of the visual systems in three sympatric coastal shark species. *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology*. 200(12): 997-1013.
- [15] Adams, AJ, **AZ Horodysky**, RS McBride, K Guindon, J Shenker, TC MacDonald, HD Harwell, R Ward & K Carpenter. 2014. Global conservation status and research needs for tarpons (Megalopidae), ladyfishes (Elopidae), and bonefishes (Albulidae). *Fish and Fisheries*. 15(2): 280-311.
- [14] **Horodysky AZ**, RW Brill, KC Crawford\*, ES Seagroves\* & AK Johnson. 2013. Comparative visual ecophysiology of mid-Atlantic temperate reef fishes. *Biology Open*. 2:1371-1381.
- [13] McComb DM, TM Frank, **AZ Horodysky** & SM Kajiura. 2013. Comparative visual function in predatory fishes from the Indian River Lagoon. *Physiological & Biochemical Zoology*. 86:285-297.
- [12] Graves JE, **AZ Horodysky** & DW Kerstetter. 2012. Incorporating circle hooks into Atlantic pelagic fisheries: case studies from the commercial tuna/swordfish longline and recreational billfish fisheries. *Bulletin of Marine Science*. 88(3):411-422
- [11] **Horodysky AZ**, RW Brill, PG Bushnell, JA Musick & RJ Latour. 2011. Comparative metabolic rates of common western North Atlantic sciaenid fishes. *Journal of Fish Biology*. 79:235-255.
- [10] Graves JE & **AZ Horodysky**. 2010. Asymmetric conservation benefits of circle hooks in multispecies billfish recreational fisheries: a synthesis of hook performance and analysis of blue marlin post-release survival. *Fishery Bulletin*. 108:433-441.
- [9] Patterson MR, **AZ Horodysky**, BW Deffenbaugh & RW Brill. 2010. Using active echo cancellation to minimize stimulus reverberations during hearing studies conducted with the auditory brain response (ABR) technique. *Journal of Biomedical Science and Engineering*. 3(2010):861-867.

- [8] **Horodysky AZ**, RW Brill, EJ Warrant, JA Musick & RJ Latour. 2010. Comparative visual function in four piscivorous fishes inhabiting Chesapeake Bay. *Journal of Experimental Biology*. 213:1751-1761.
- [7] Graves JE, **AZ Horodysky** & RJ Latour. 2009. Use of pop-up satellite archival tag technology to study postrelease survival and habitat utilization of estuarine and coastal fishes: an application to striped bass. *Fishery Bulletin*. 107:373–383.
- [6] **Horodysky AZ**, RW Brill, EJ Warrant, JA Musick & RJ Latour. 2008. Comparative visual function in five sciaenid fishes. *Journal of Experimental Biology*. 211(22):3601-3612.
- [5] **Horodysky AZ**, RW Brill, ML Fine, JA Musick & RJ Latour. 2008. Acoustic pressure and acceleration thresholds in six sciaenid fishes. *Journal of Experimental Biology*. 211(9):1504-1511.
- [4] Graves JE & **AZ Horodysky**. 2008. Does hook choice matter? The effects of three circle hook models on post-release survival of white marlin. *North American Journal of Fisheries Management*. 28:471-480.
- [3] **Horodysky AZ**, DW Kerstetter, RJ Latour & JE Graves. 2007. Habitat utilization and vertical movements of white marlin (*Tetrapturus albidus*) released from commercial and recreational fishing gears in the western North Atlantic Ocean: inferences from short duration pop-up archival satellite tags. *Fisheries Oceanography*. 16(3):240-256.
- [2] **Horodysky AZ** & JE Graves. 2005. Application of pop-up satellite archival tag technology to estimate postrelease survival of white marlin (*Tetrapturus albidus*) caught on circle and straight-shank (“J”) hooks in the western North Atlantic recreational fishery. *Fishery Bulletin*. 103:84-96.
- [1] McBride RS & **AZ Horodysky**. 2004. Mechanisms maintaining sympatric distributions of two ladyfish (Elopidae: *Elops*) morphs in the Gulf of Mexico and western North Atlantic Ocean. *Limnology and Oceanography*. 49(4):1173-1181.

#### BOOK CHAPTERS (1 in preparation)

Rosenberger AE, C Zimmerman, EB Taylor, J Musick, M Neilson, **A Horodysky**, D Noakes, & J Neilson. Salmonidae: Salmo, trout, char, and whitefish. Chapter submitted to Warren, M.L. and B. M. Barr, editors. Diversity of North American Freshwater Fishes: Natural History, Ecology, and Conservation. Volume II. Status: *In prep*.

#### MANUSCRIPTS IN REVIEW (2):

Cooke SJ, Bergman JN, Twardek WM, Piczak ML, Casselberry GA, Lutek K, Dahlmo LS, Birnie-Gauvin K, Griffin LP, Brownscombe JW, Raby GD, Standen EM, **Horodysky AZ**, Johnsen S, Holbrook CM, Danylchuk AJ, Furey NB, Gallagher AJ, Lédée EJI, Midwood JD, Gutowsky LFG, Jacoby DMP, J.K. Matley JK & Lennox RJ. *In Review*. The movement ecology of fishes. Submitted to *Journal of Fish Biology*.

Lennox RJ, JW Brownscombe, C Darimont, **AZ Horodysky**, T Levi, GD Raby, and SJ Cooke. *In Review*. Superpredators and the structure and functioning of ecosystems. Submitted to *People and Nature*.

### **GRANTSMANSHIP** (\$2,899,720 overall; \$2,298,439 (79%) to my Universities)

#### FUNDED GRANTS

- 2024-2019 NSF-BIO-IOS. \$700,000. “CAREER: Investigating environmental acidification and temperature as drivers of morphological alteration and physiological deficits in auditory systems of soniferous fishes”. (Sole PI Award).
- 2022-2019 NSF-HRD. \$400,000. “Targeted Infusion Project: Mathematical Engagement for the Marine, Biological, and Environmental Realms of Science (MEMBERS). (Role, PI; HU Budget: \$400,000).
- 2020-2016 NSF-HRD. \$359,998. “Research Initiation Award (RIA): Linking environment to form and function by quantifying the effects of ocean acidification on visual and auditory neurobiology in marine fishes (*OANeuro*)”. (Sole PI Award)

- 2018- NOAA-EPP, LMRCSC Program. \$59,228. The impact of increasing sea surface temperatures on  
2017 piscivore and planktivore species dynamics: an ecosystem-based modeling approach” (HU  
Budget: \$59,228)  
NOAA-EPP, LMRCSC Program. \$53,953 “Discard mortality of sub-legal black sea bass in the  
commercial trap fishery: Impacts of air exposure and acute temperature changes”. with UMES  
(HU Budget: \$6,553)
- 2016- NOAA-EPP, LMRCSC Program. \$40,407. “Effect of low taurine diet on visual function in  
2015 aquacultured cobia, *Rachycentron canadum*”; with UMCES-IMET. (HU Budget: \$22,542).  
NOAA-EPP, LMRCSC Program. \$55,921. “Bycatch and discard mortality for the commercial  
black sea bass trap fishery: Assessment of behavioral and physiological predictors of mortality”;  
with UMES. (HU Budget: \$6,021).
- 2015- NOAA-EPP, LMRCSC Program. \$46,384. “Comparison of NOAA Montlake meal and Otohime  
2014 feed performance in aquacultured pompano: feed ration, feed frequency, feed conversion ratio,  
and feed efficiency”; with Virginia Tech (HU Budget: \$46,384).  
NOAA-EPP, LMRCSC Program. \$45,094. “Isolating functional microsatellite markers in chinook  
salmon to inform riverscape genetic analysis”, with Oregon State University (HU Budget: \$9,009).
- 2015- NSF-HRD. \$298,926. “Targeted Infusion Project: Educational Partnership in Climate Change and  
2011 Sustainability (EPICCS)”; with ECSU & VIMS (HU budget: \$163,749).
- 2014- NOAA Sea Grant. \$71,327. “Sustainable Fisheries and Aquaculture Outreach, Education and  
2013 Training for Under-Represented Groups and Aquaculture Producers”; with Virginia Tech &  
Virginia Aquarium (HU budget: \$23,847).  
NOAA-EPP, LMRCSC Program. \$41,449. Effects of temperature and feed type on gastric  
evacuation of aquacultured Florida pompano (*Trachinotus carolinus*); with Virginia Tech (HU  
Budget: \$41,449).  
NOAA-EPP, LMRCSC Program. \$47,773. “Effects of climate change and anthropogenic  
stressors on piscivore-planktivore trophic interactions”. (HU Budget \$47,773).  
NOAA-EPP, LMRCSC Program. \$49,420. “Microsatellite markers isolation (EST-SSR’s) for  
association tests of reproductive phenotypes in the context of environmental variability for  
Chinook salmon”; with Oregon State University (HU budget: \$11,688).
- 2013- NOAA-EPP, LMRCSC Program. \$97,660. “Role of seascape characteristics of submerged  
2012 aquatic vegetation”; with RSMAS, Univ. of Miami (HU budget: \$14,435).
- 2012- NOAA-EPP, LMRCSC Program. \$88,497. “Temperature preferences of Atlantic croaker under  
2011 hypoxic and normoxic conditions”; with UMES (HU budget: \$33,350)  
NOAA-EPP, LMRCSC Program. \$28,708. “Feeding and growth of doliolids as related to food  
concentration and temperature: Toward a model of doliolid population dynamics”; with UMCES  
(HU budget: \$17,674).  
NOAA-EPP, LMRCSC Program. \$18,763. “Sensory ecology of Atlantic sturgeon:  
ecophysiological auditory and visual performance measures” (HU Budget: \$18,763).
- 2011 NOAA-EPP, LMRCSC Program. \$24,490. “Sensory ecology of tautog: ecophysiological auditory  
and visual performance measures”; with UMES (HU budget: \$19,080).
- 2010 NOAA-EPP, LMRCSC Program. \$38,951. “Sensory ecology of juvenile and adult black sea bass:  
ecophysiological auditory & visual performance measures”; with UMES (HU budget: \$20,400).
- 2009 Virginia Marine Resources Comm. \$90,369. “Use of pop-up satellite tags to determine the fate,  
movements, and habitat utilization of red drum released from Virginia’s recreational fishery.”
- 2008 Virginia Marine Resources Comm. \$71,371. “Pilot study: Application of pop-up satellite archival  
tags (PSATs) to assess the postrelease survival, habitat utilization and short term movement of  
striped bass in Virginia’s winter recreational fishery.”
- 2007- Virginia Marine Resources Comm. \$94,568. “Visual function in Chesapeake Bay sportfishes:  
2006 summer flounder, bluefish, cobia, Atlantic menhaden.”

- 2005 NOAA CMER Program. \$33,625. "Energy density of common prey species of recreationally and commercially important marine fishes in Chesapeake Bay."
- 2005 Virginia Marine Resources Comm. \$42,838. "Visual function in Chesapeake Bay sportfishes: striped bass, weakfish, spotted seatrout, Atlantic croaker, spot, and red drum."

#### GRANTWRITING TEAMS (PROGRAMMATIC)

- 2018 Department of Education. \$3,500,000. Hampton University First in the World. Grantwriting team  
2014 and MES Departmental STEM Faculty Advisor. (HU Budget \$3,000,000).

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## OTHER PUBLICATIONS

### GREY LITERATURE

- Horodysky AZ** 2009. The visual world of fishes. In: *2009 World Record Game Fishes*. International Game Fish Association, Ft. Lauderdale, FL.
- Adams A, K Guindon, **A Horodysky**, T MacDonald, R McBride, J Shenker & R Ward. 2012. *Megalops atlanticus*, *M. cyprinoides*, *Elops saurus*, *E. smithi*, *E. lacerta*, *E. senegalensis*, *E. hawaiiensis*, *E. machnata*, *E. affinis*, *Albula nemoptera*, *A. oligolepis*, *A. sp. B.*, *A. sp. cf. vulpes*, *A. vulpes*, *A. glossodonta*, *A. argentea*, *Pterothrissus bellocci*, *P. gissou*. In: IUCN 2012. *IUCN Red List of Threatened Species*. Version 2012.2
- Horodysky AZ**, & GH Burgess. 2006. *Centrophorus acus*, *Etmopterus bigelowi*, *E. bullisi*, *E. virens*. In: IUCN 2010. *IUCN Red List of Threatened Species*. Version 2010.3.
- Herndon AP, **AZ Horodysky**, & GH Burgess. 2006. *Etmopterus schultzi*. In: IUCN 2010. *2010 IUCN Red List of Threatened Species*. IUCN. Gland, Switzerland. Version 2010.3
- Horodysky, AZ**, DW Kerstetter, & JE Graves. 2003. Habitat preferences and diving behavior of white marlin (*Tetrapturus albidus*) released from recreational rod-and-reel and commercial pelagic longline fisheries in the western North Atlantic Ocean: implications for habitat-based stock assessment models. *ICCAT (Int. Comm. Cons. Atl. Tunas) SCRS/2003/033*.

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## PRESENTATIONS AND POSTERS (\*denotes presenter, †student)

### SELECT PRESENTATIONS (n = 29, 2017 – present shown)

- 2019 **Horodysky, AZ\***. Comparison of the sensory neurobiology of CO<sub>2</sub>-exposed tropical and temperate marine fishes. 149th Ann. Mtg. Am. Fish. Soc. Reno, NV.  
Williams-McLeod, S\*† K, RW Brill, C Turner†, MH Schwarz, TP Hurst, & **AZ Horodysky**. Effect of ocean acidification on auditory neurobiology in a coastal marine fish. 2019 Aquatic Sciences Mtg., San Juan, PR.
- 2018 Dorsey\*† K, RW Brill, O Stojilovic, MH Schwarz, TP Hurst, & **AZ Horodysky**. Effect of ocean acidification on auditory neurobiology in a tropical marine fish. 2018 Ocean Sciences Mtg., Portland, OR.
- 2017 **Horodysky\* AZ**, RW Brill, MH Schwarz, & TP Hurst. Blinding Nemo? The "pH"ingerprints of ocean acidification on neurosensory dysfunction in orange clownfish (*Amphiprion percula*). 147th Ann. Mtg. Am. Fish. Soc. Tampa, FL.  
**Horodysky\* AZ** & RW Brill. Hear no evil? Auditory function of mid-Atlantic living marine resources in an era of anthropogenic effects. 147th Ann. Mtg. Am. Fish. Soc. Tampa, FL.

### SELECT POSTERS (n = 11, 2019-present shown)

- 2019 Milton, I\*†, C. Bonin, N. Smith†, K. Dorsey†, O. Stojilovic†, J. Layton\*†, K. Cruz†, D. Gibson, **AZ Horodysky**. MicroRNA isolation from three neurosensory structures in CO<sub>2</sub>-exposed marine fishes. 149th Ann. Mtg. Am. Fish. Soc. Reno, NV.

Turner, C\*<sup>†</sup>, K Dorsey\*<sup>†</sup>, SK Williams-McLeod<sup>†</sup>, RW Brill, O. Stojilovic<sup>†</sup>, MH Schwarz, TP Hurst, & **AZ Horodysky**. Comparison of the visual neurobiology of tropical and coastal marine fishes under ocean acidification. 2019 Aquatic Sciences Mtg., San Juan, PR.

2018 O Stojilovic\*<sup>†</sup>, RW Brill, K Dorsey<sup>†</sup>, MH Schwarz, TP Hurst, & **AZ Horodysky**. Blinding Nemo? The "pH"ingerprints of ocean acidification on neurosensory dysfunction in Orange Clownfish (*Amphiprion percula*). 2018 Ocean Sciences Mtg., Portland, OR.

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## **PROFESSIONAL SERVICE**

### JOURNAL EDITORSHIP

2010-2014. *Associate Editor*, North American Journal of Fisheries Management

### COMMITTEES AND PROGRAM SERVICE

2014-present. Vice Chair, HU IACUC

2010-present. Mentor, ASLO Multicultural Program

2012-2018. Member, Publications Overview Committee, American Fisheries Society

2010-2014. Early Career Committee, Assoc. for the Sciences of Limnology & Oceanography (ASLO).

2011. Participant, IUCN Red List of Threatened Species workshop: Megalopidae, Elopidae, Albulidae

2003-7. Graduate Student Representative, VIMS Academic Council

2004-6. President's Aide, College of William & Mary

2004. Participant, IUCN Red List of Threatened Species workshop: Elasmobranchs

### JOURNAL MANUSCRIPT REVIEWS

Nature Scientific Reviews	J. Exp. Biol.	Estuaries & Coasts	Fisheries Research
Trans. Am. Fish. Soc.	Fishery Bulletin	Bull. Mar. Sci.	PNAS
N. Am. J. Fish. Manag.	Fish Physiol. Biochem.	Env. Biol. Fishes	Can. J. Fish Aquat. Sci.
Cons. Physiol.	Diversity		

### GRANT REVIEWS

NSF-CAREER

NSF-HBCU-UP-TIP Panel

NSF-GEO-GEOPATHS

NNSF-BIO-IOS-PMB

EPA STAR Review Panel (Aquatic Systems Ecology)

NOAA Cooperative Research Program

NOAA Saltonstall-Kennedy Program

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## **HONORS AND AWARDS**

Signature Fly Designer, Umpqua Feather Merchants (2001-present)

NSF CAREER Award Recipient (2019-present)

Graduate advisor of 2016 *John A. Knauss Marine Policy Fellowship* recipient L. Redd, Jr.

Research mentor/advisor of 2012 *Marshall Scholarship* recipient K.C. Crawford

Matthew Fontaine Maury Student Fellowship Award, VIMS (2007-2008)

Dr. James T. Wright Conservation Award, Virginia Beach Angler's Association (2007)

Ryan Kelley Memorial Scholarship, International Women's Fishing Association (2006-8)

Barry M. Goldwater Scholar (1999)