#### **CURRICULUM VITAE**

#### **Todd Ryan Clardy**

### Current Address Home

678 Wynnwood Circle Midland City, AL. 36350 Phone: 334-733-5806 Email <u>tclardy@uw.edu</u>; <u>clardytodd@gmail.com</u> Twitter: @ToddClardy Website: <u>www.toddclardy.com</u>

#### **Educational Background**

# Virginia Institute of Marine ScienceGloucester Point, VAPh.D., Fisheries ScienceAugust 2008-August 2014Dissertation:"Morphological systematics of the prickleback<br/>family Stichaeidae (Cottiformes: Zoarcoidei)"Chair of Graduate Committee:Eric J. HiltonCommittee members:Tracey Sutton, Rich Brill, Wolfgang Vogelbein, Bruce Collette

#### University of South Alabama

Mobile, Alabama

M.S., Marine Sciences May 2002-December 2006
Thesis: "Migratory group discrimination between eastern Gulf of Mexico and Atlantic king mackerel (*Scomberomorus cavalla*) using otolith shape analysis"
Co-Chair of Graduate Committee: William F. Patterson III
Co-Chair of Graduate Committee: Robert L. Shipp
Committee members: Sean P. Powers, Douglas A. DeVries, Jack J. O'Brien

#### **Troy State University**

Troy, Alabama

August 1999-May 2002

B.S., Marine Biology Cum Laude

**University of South Alabama** 

Mobile, Alabama

August 1997-May 1999

#### **Research Experience**

Friday Harbor Labs Postdoctoral Lecturer

September 2019-

For the Fall 2019 semester, teach an undergraduate course on Research in Marine Science and organize the FHL seminar series. For the research course, each student has designed and conducted a research project based on organisms collected from the San Juan Islands. Lectures

focus on experimental design, manuscript preparation, and poster/oral presentation preparation.

#### King Fahd University of Petroleum and Minerals Assistant Professor; Research Scientist III

June 2015-August 2019

Zooplankton researcher responsible for establishing and managing a zooplankton research lab in the Center for Environment and Water, Marine Studies Section (MSS). Manage a team of scientists studying zooplankton ecology in Saudi Arabian waters of the Arabian Gulf and Red Sea. Projects focus on the spatial and temporal diversity and distribution of zooplankton and ichthyoplankton in the Kingdom's waters. Other duties include curation assistance in the ichthyology collection of the MSS Fish Museum and assisting with/developing projects on primary production in the Arabian Gulf, sea turtle ecology, elasmobranch ecology, fish anatomy, functional morphology of marine zooplankton, and collaborating with the MSS Fisheries Program.

#### Virginia Institute of Marine Science

**Graduate Research Assistant** with Dr. Eric Hilton July 2008-August 2014 My dissertation research focused on the morphological systematics of the prickleback family Stichaeidae (Cottiformes: Zoarcoidei), a diverse family of intertidal and near shore fishes. I used aspects of comparative anatomy and phylogenetic systematics to study the evolutionary biology of this group of fishes. My dissertation had three chapters: Chapter 1 described the osteology of the stichaeid genus *Xiphister*, Chapter 2 focused on the morphology and ontogeny of the mechanosensory system in *Xiphister*, and Chapter 3 was a morphological systematic revision of the family Stichaeidae and its relatives. In addition to my dissertation, I managed a project monitoring ichthyoplankton ingress into the York River, VA. Assisted in collection, identification, and age and growth of larval fish. Assist in field collection on numerous monitoring programs. Held teaching fellowships at Booker T. Washington Middle School and the College of William & Mary.

#### Barry A. Vittor and Associates, Inc. Staff Scientist

#### March 2005-June 2008

Employed as a fish taxonomist responsible for identification of larval and juvenile fishes collected for a fishery monitoring plan at a liquid natural gas facility in the Gulf of Mexico. Managed the plankton lab, coordinating processing and identification of ichthyoplankton and zooplankton. Developed impact assessment models for monitoring plans and assisted in writing reports. Assisted in field collection during plankton sampling cruises and other monitoring programs. Edited reports and provided technical assistance for additional monitoring programs.

#### **University of South Alabama**

**Graduate Research Assistant** with Dr. Will Patterson Summer 2002-Sep. 2006 My thesis topic investigated stock mixing of eastern Gulf of Mexico and Atlantic king mackerel in south Florida during winter. King mackerel were sampled during summer from Gulf and Atlantic waters when stocks were separate. Otolith shape was analyzed using standard morphologic characteristics and Fourier series analysis to develop stock-specific natural tags. Using models derived from summer samples, the contributions of each stock to winter landings from south Florida were estimated with a maximum likelihood estimation procedure.

#### University of South Alabama

**Research Assistant** with Dr. Douglas DeVries Summer 2002 Assisted the National Marine Fisheries Service, Panama City Laboratory with sampling for their fishery landings data collection. Primarily assisted with the extraction and processing of king mackerel and reef fish otoliths. Sampled commercial fish houses and recreational tournaments.

NSF REU Program with Dr. Just Cebrian Fall 2001 Conducted a study investigating the effects of sediment nutrient enrichment and water column shading on the seagrass *Halodule wrightii* in Perdido Bay, Florida. Set up field plots with nitrogen and phosphorus fertilizer packets to simulate nutrient enrichment and mesh screens above H wrightii canopy to simulate shading. Monitored plots weekly for differences in H. wrightii density and growth. Analyzed data using SigmaStat and SigmaPlot.

#### **Troy State University**

**Research Assistant** with Dr. Alvin Diamond Fall 2000 Investigated the insect pollinators of *Dalea pinnata*, a legume species considered rare in the state of Alabama. Assisted in the collection of insect visitors throughout the flowering season of D. pinnata and identified location of pollen on each insect visitor collected. Presented results at the Alabama Academy of Science meeting at Auburn University.

#### **Publications – Upcoming**

- T. R. Clardy, M. Al-Nuwairah, K. P. Manikandan, M. A. Qurban. (In review). Spatial variability of ichthyoplankton in Saudi Arabian waters of the Red Sea.
- T. R. Clardy, Biji K. Thomas, Moritz J. Heinle, M. Al-Nuwairah, T. I. Hikmawan, P. K. Prihartato, K. A. Abdulkader, M. A. Qurban. (In review). High turnover drives seasonal changes in copepod communities in the Western Arabian Gulf.
- T. R. Clardy, M. J. Heinle, B. K. Thomas, M. Al-Nuwairah, T. I. Hikmawan, P. K. Prihartato, K. A. Abdulkader, M. A. Qurban. (In review). Spatial diversity and distribution of zooplankton in Saudi Arabian waters of the Western Arabian Gulf.
- T. R. Clardy, M. J. Heinle, B. K. Thomas, M. Al-Nuwairah, P. B. Das, T. I. Hikmawan, P. K. Prihartato, K. A. Abdulkader, M. A. Qurban. (In review). Zooplankton community response to a diatom bloom in coastal waters of the Western Arabian Gulf.
- M. J. Heinle, A. V. Flandez, T. R. Clardy, P. K. Prihartato, T. I. Hikmawan, K. A. Abdulkader, M. A. Qurban. (In review). Seasonal dynamics in the contribution of different phytoplankton size classes in Saudi waters of the western Arabian Gulf.
- T. R. Clardy, V. G. Jinoy. (In press). Morphology of photophores in juvenile Vinciquerria mabahiss Johnson and Feltes 1984 (Stomiiformes: Phosichthyidae). Acta Zoologica

**T. R. Clardy.** (In press). Fractal morphology of mechanosensory lateral-line canals in Stichaeidae (Cottiformes: Zoarcoidei). Zoology

#### **Publications - Published**

- L. Rabaoui, L. Yacoubi, D. Sanna, M. Casu, F. Scarpa, Y.-J. Lin, K.-N. Shen, T. R. Clardy, M. Arculeo, M. A. Qurban. 2019. DNA barcoding of marine fishes from the coastal waters of eastern Saudi Arabia. Journal of Fish Biology.
- T. R. Clardy, M. J. Heinle, Y.-J. Lin. 2019. Chapter 3.12. The Pelagic Environment of the Arabian Gulf. In: K. A. Abdulkader, R. Loughland, M. A. Qurban. (eds.): *Ecosystems and Biodiversity of the Arabian Gulf: 50 Years of Scientific Research*. pp 309-323. Saudi Aramco and King Fahd University of Petroleum and Minerals.
- M. A. Qurban, M. Wafar, M. J. Heinle, K. P. Manikandan, T. R. Clardy, K. A. Abdulkader. 2019. Chapter 4.1. Plankton. In: K. A. Abdulkader, R. Loughland, M. A. Qurban. (eds.): *Ecosystems and Biodiversity of the Arabian Gulf: 50 Years of Scientific Research*. pp 329-364. Saudi Aramco and King Fahd University of Petroleum and Minerals.
- T. R. Clardy, E. J. Hilton. 2016. Osteology of the prickleback genus Xiphister (Cottiformes: Zoarcoidei: Stichaeidae). Acta Zoologica. 97:211-231. <u>http://dx.doi.org/10.1111/azo.12118</u>
- T. R. Clardy, E. J. Hilton, W. F. Vogelbein. 2015. Morphology and ontogeny of multiple lateral-line canals in the prickleback genus *Xiphister* (Cottiformes: Zoarcoidei: Stichaeidae). Journal of Morphology. 276:1218-1229. <u>http://onlinelibrary.wiley.com/doi/10.1002/jmor.20413/</u>
- F. Ribeiro, E. Hale, T. R. Clardy, A. Deary, E. J. Hilton, T. Targett, J. E. Olney. 2015. Composition and temporal patterns of larval fish ingress in Chesapeake and Delaware Bays. Marine Ecology Progress Series. 527:167-180. <u>http://dx.doi/10.3354/meps11265</u>
- J. S. Lefcheck, A. Buchheister, K. M. Laumann, M. Stratton, K. Sobocinski, S. Chak, T.
   R. Clardy, P. L. Reynolds, J. E. Duffy, R. J. Latour. 2014. Dimensions of biodiversity in Chesapeake Bay demersal fishes: patterns and drivers through space and time. Ecosphere. 5:art14. http://dx.doi.org/10.1890/ES13-00284.1
- **T. R. Clardy**. 2012. Aquatic and terrestrial locomotion of the Rock Prickleback, *Xiphister mucosus* (Cottiformes: Zoarcoidei: Stichaeidae). Northwestern Naturalist. 93(3):203-210.
- T. R. Clardy, W. F. Patterson III, D. A. DeVries, C. Palmer. 2008. Spatial and temporal variability in the relative contributions of King Mackerel (*Scomberomorus cavalla*) stocks to winter mixed fisheries off South Florida. Fishery Bulletin. 106:152-160.

#### **Conference Presentations**

- T. R. Clardy, V. G. Jinoy. "Photophore morphology in Vinciguerria mabahiss Johnson and Feltes 1984 (Stomiiformes: Phosichthyidae)" 31<sup>st</sup> Charles Henry Gilbert Ichthyological Society Meeting. Pack Forest, Washington. September 20-22, 2019.
- H. H. Hsu, T. R. Clardy, P. Panickan, Z. M. Nazeer, M. A. Qurban. "Preliminary study of whale shark occurrences and association with zooplankton biomass in Saudi Arabian waters of the Arabian Gulf." 5<sup>th</sup> International Whale Shark Conference. Exmouth, Australia. May 28-31, 2019.
- M. J. Heinle, A. V. Flandez, T. R. Clardy, P. K. Prihartato, T. I. Hikmawan, K. A. Abdulkader, M. A. Qurban. "The role of nano- and picophytoplankton in coastal phytoplankton communities of the Arabian Gulf." ASLO 2019 Aquatic Sciences Meeting. San Juan, Puerto Rico. February 23-March 2, 2019.
- T. R. Clardy, <u>M. J. Heinle</u>, M. Al-Nuwairah, B. K. Thomas, T. I. Hikmawan, P. K. Prihartato, K. A. Abdulkader, M. A. Qurban. "Spatial diversity and distribution of zooplankton in the Western Arabian Gulf." ASLO 2019 Aquatic Sciences Meeting. San Juan, Puerto Rico. February 23-March 2, 2019.
- M. Al-Nuwairah, B. K. Thomas, **T. R. Clardy**, M. J. Heinle, T. I. Hikmawan, P. K. Prihartato, K. A. Abdulkader, M. A. Qurban. "Spatial diversity and distribution of zooplankton in Saudi Arabian waters of the Western Arabian Gulf." PetroEnvironment 2019. Al-Khobar, Saudi Arabia. February 19-21, 2019.\*
- T. R. Clardy, M. J. Heinle, B. K. Thomas, M. Al-Nuwairah, P. B. Das, T. I. Hikmawan, P. K. Prihartato, K. A. Abdulkader, M. A. Qurban. "Response of zooplankton to a phytoplankton bloom off Al-Khobar, Saudi Arabia." PetroEnvironment 2019. Al-Khobar, Saudi Arabia. February 19-21, 2019.\*
- T. R. Clardy, M. J. Heinle, B. K. Thomas, M. Al-Nuwairah, P. B. Das, T. I. Hikmawan, P. K. Prihartato, K. A. Abdulkader, M. A. Qurban. "Response of zooplankton to a diatom bloom in coastal waters of the Western Arabian Gulf." Society for Integrative and Comparative Biology. Tampa, Florida. January 3-8, 2019.\*
- T. R. Clardy, V. G. Jinoy. "Morphology of photophores in juvenile Vinciguerria mabahiss Johnson and Feltes 1984 (Stomiiformes: Phosichthyidae)." Society for Integrative and Comparative Biology. San Francisco, California. January 4-8, 2018.\*
- T. R. Clardy, M. Al-Nuwairah, K. P. Manikandan. "Composition and distribution of zooplankton in Saudi Arabian waters of the Red Sea." International Conference on the Environment of the Red Sea. Thuwal, Saudi Arabia. November 14-16, 2016.
- T. R. Clardy, R. H. Maneja, M. J. Heinle, M. Al-Nuwairah, J. Dagoy, M. A. Qurban.
   "Ichthyoplankton surveys in Saudi Arabian waters of the Arabian Gulf." 40<sup>th</sup> Annual Larval Fish Conference. Solomons, MD. June 19-23, 2016.\*

- F. Ribeiro, E. Hale, E. J. Hilton, T. R. Clardy, A. L. Deary, T. E. Targett, J. E. Olney. "Composition and temporal patterns of larval fish communities in Chesapeake and Delaware Bays." European Congress of Ichthyology. Porto, Portugal. September 7-11, 2015.
- **T. R. Clardy.** "Complexity of the mechanosensory systems of Stichaeidae (Cottiformes: Zoarcoidei)." Southeast Regional Meeting of the Society for Integrative and Comparative Biology. Chapel Hill, NC. October 25, 2014.
- **T. R. Clardy** and Eric J. Hilton. "Systematics of the prickleback family Stichaeidae (Cottiformes: Zoarcoidei) using morphological data." Joint Meeting of Ichthyologists and Herpetologists. Chattanooga, Tennessee. July 30, 2014.
- T. R. Clardy, Eric J. Hilton, and Wolfgang K. Vogelbein. "Morphology of multiple lateral lines in the Rock Prickleback, *Xiphister mucosus*." Society for Integrative and Comparative Biology. Austin, Texas. January 3-7, 2014.
- **T. R. Clardy**, Eric J. Hilton, and Wolfgang K. Vogelbein. "Morphology of multiple lateral lines in the Rock Prickleback, *Xiphister mucosus*." Joint Meeting of Ichthyologists and Herpetologists. Albuquerque, New Mexico. July 12, 2013.
- T. R. Clardy and Eric J. Hilton. "Systematic relationships of the prickleback family Stichaeidae (Cottiformes: Zoarcoidei) using morphological data." Joint Meeting of Ichthyologists and Herpetologists. Albuquerque, New Mexico. July 12, 2013.\*
- T. R. Clardy and Eric J. Hilton. "A preliminary look at the systematic relationships of the prickleback family Stichaeidae (Cottiformes: Zoarcoidei) based on morphological data." Joint Meeting of Ichthyologists and Herpetologists. Vancouver, British Columbia. August 10, 2012.
- J. Lefcheck, A. Buchheister, K. M. Laumann, S. Chak, P. L. Reynolds, K. Soboconski, M. Stratton, T. R. Clardy and J. E. Duffy. "Components of biodiversity in a Chesapeake Bay groundfish assemblage: a high-resolution analysis of patterns and drivers." Ecological Society of America, 97<sup>th</sup> Annual Meeting. Portland, OR. August 9, 2012.
- T. R. Clardy. "Using fractals to describe morphology and ontogeny of lateral line canals of *Xiphister* (Cottiformes: Zoarcoidei: Stichaeidae) with comparisons to other stichaeids." Society for Integrative and Comparative Biology. Charleston, South Carolina. January 6, 2012.
- T. R. Clardy and Eric J. Hilton. "Osteology of the prickleback genus Xiphister (Cottiformes: Zoarcoidei: Stichaeidae) with comparisons to other stichaeids." 13<sup>th</sup> Annual Sigma Xi Tidewater Student Research Poster Session. Newport News, Virginia. November 18, 2011.\*
- T. R. Clardy. "Using fractals to describe morphology and ontogeny of the trunk lateral line canals of the prickleback genus *Xiphister* (Cottiformes: Zoarcoidei: Stichaeidae) with comparisons to other stichaeids." Joint Meeting of Ichthyologists and Herpetologists. Minneapolis, Minnesota. July 10, 2011.

- F. Ribeiro, **T. R. Clardy**, A. Deary, E. J. Hilton and J. E. Olney. "Fish larvae in the York River: the ongoing saga of the Ingress Project." York River Research Symposium. Gloucester Point, VA. April 20, 2011.
- F. Ribeiro, E. Hale, T. R. Clardy, A. Deary, E. J. Hilton, T. E. Targett and J. E. Olney. "The ongoing saga of larval fishes in the Chesapeake and Delaware Bays." 25<sup>th</sup> Annual Meeting of the American Fisheries Society's Tidewater Chapter. Gloucester Point, VA. March 11, 2011.
- T. R. Clardy. "An analysis of aquatic and terrestrial locomotion in the rock prickleback, *Xiphister mucosus* (Cottiformes: Zoarcoidei: Stichaeidae)." 25<sup>th</sup> Annual Meeting of the American Fisheries Society's Tidewater Chapter. Gloucester Point, VA. March 11, 2011.
- **T. R. Clardy**. "Terrestrial and aquatic locomotion of the rock prickleback, *Xiphister mucosus* (Cottiformes: Zoarcoidei: Stichaeidae)." American Society of Limnology and Oceanography Aquatic Sciences Meeting. San Juan, Puerto Rico. February 13, 2011.
- T. R. Clardy and Eric J. Hilton. "Osteology of the prickleback genus Xiphister (Cottiformes: Zoarcoidei: Stichaeidae) with comparisons to other stichaeids." Joint Meeting of Ichthyologists and Herpetologists. Providence, Rhode Island. July 2010.\*
- F. Ribeiro, E. Hale, T. R. Clardy, A. Deary, E. J. Hilton, T. E. Targett and J. E. Olney.
   "Patterns of early stage fish ingress into Chesapeake and Delaware Bays." Joint Meeting of Ichthyologists and Herpetologists. Providence, Rhode Island. July 2010.
- **T. R. Clardy** and Eric J Hilton. "Morphology and ontogeny of trunk lateral line canals of the rock prickleback, *Xiphister mucosus* (Perciformes: Zoarcoidei: Stichaeidae), with preliminary comparisons to other stichaeids." Joint Meeting of Ichthyologists and Herpetologists. Portland, Oregon. July 2009.\*
- J. Cebrian, K. Pickard and T. R. Clardy. "The effects of short-term shading and sediment nutrient enrichment on shoalgrass (*Halodule wrightii*) growth dynamics." Eighth International Seagrass Biology Workshop. Vancouver Island, Canada. August 2008.
- J. D. Lee, C. Newton, **T. R. Clardy**, and B. Vittor. "Fishery Impact Monitoring of Open-Rack Vaporization LNG Facilities." Spring meeting of the Southern Division of the American Fisheries Society. San Antonio, Texas. February 2006.\*
- T. R. Clardy, W.F. Patterson III, and C. Palmer. "Stock discrimination between eastern Gulf of Mexico and Atlantic king mackerel using otolith shape analysis." Third International Symposium on Fish Otolith Research and Application. Townsville, Queensland Australia. July 2004.\*
- T. R. Clardy, W.F. Patterson III, and C. Palmer. "Stock discrimination between Atlantic

and Gulf of Mexico king mackerel, Scomberomorus cavalla, with otolith shape analysis." 21<sup>st</sup> Annual Alabama Fisheries Association Meeting. Gulf Shores, Alabama. February 2004.

- T. R. Clardy, W.F. Patterson III, and C. Palmer. "Stock discrimination of eastern Gulf of Mexico and southeast Atlantic king mackerel *Scomberomorus cavalla* using otolith shape analysis." University of South Alabama Research Symposium. University of South Alabama, Mobile, Alabama. April 2003.\*
- **T. R. Clardy** and J. Cebrian. "The effects of short-term sediment fertilization and watercolumn shading on the growth and density of *Halodule wrightii*." Association of Southeastern Biologists. Appalachian State University, Boone, North Carolina. April 2002.
- **T. R. Clardy** and A. Diamond. "Preliminary investigations of the floral visitors of *Dalea pinnata* in southern Alabama." Alabama Academy of Science. Auburn University, Auburn, Alabama. March 2001.
- T. R. Clardy and J. Cebrian. "The effects of short-term sediment fertilization and watercolumn shading on the growth and density of *Halodule wrightii*." Graduate Student Symposium. Dauphin Island Sea Lab, Dauphin Island, Alabama. February 16-17, 2001.
- \* denotes poster presentation

#### **Additional Professional Skills**

Computer Skills-

R, R Studio, Adobe Photoshop, Adobe Illustrator, ImageJ, Microsoft Word, Microsoft Excel, Microsoft PowerPoint, SigmaStat, SigmaPlot, SAS 8.0, S-Plus 6.1, Minitab, Image-Pro 4.5, Mesquite 2.7, TNT 1.1

Professional Skills-

NAUI Scuba Diver Certification; Otolith extraction, sectioning, and ageing for larval, juvenile and adult fishes; clearing and staining techniques for adult and larval fish; dry skeleton preparation; micro-ct scanning; larval and adult fish taxonomy; familiar with field sampling techniques for adult fish including electroshocking, seining, hook and line, Otter trawls, cast netting, gillnetting; familiar with field sampling techniques for larval fish including bongo nets, Tucker trawls, and light traps; familiar with various environmental sensing and monitoring gear.

#### **Grants and Fellowships Awarded**

Darling Marine Center Addison E. Verrill Visiting Graduate Student Award – 2012. \$2,300.00

VIMS GSA supplies mini-grant – 2012. Nerve stains of Stichaeidae. \$500.00

American Museum of Natural History: Lerner-Gray Grants for Marine Research – 2010. Stichaeid collections of the U.S. west coast. \$1,500.00

VIMS GSA supplies mini-grant – 2009. Morphological variation in the trunk lateral lines of pricklebacks, family Sichaeidae (Perciformes). \$490.81.

VIMS GSA Student Research Grant – 2009. Distribution and morphology of trunk lateral line neuromasts in Stichaeidae (Perciformes: Zoarcoidei). \$500.00

#### **Teaching Fellowships**

## Undergraduate Minor in Marine Science Teaching Assistantship – Spring 2014 – The College of William & Mary

Teacher's Assistant position for the College of William & Mary course "Introduction to Marine Science." The course, led by Drs. Jeff Shields and Donglai Gong, provides early undergraduate biology students with an overview of biological, chemical, physical, and geological oceanography. My specific duties were to assist with course design, teach two lectures, grade quizzes, exams, and papers, lead field trips, and maintain office hours to assist students.

#### Marine Science Teaching Fellows Program – Spring 2013 – The College of William & Mary

Designed and taught a one-credit course titled "Life in the Intertidal" for upper-level undergraduate students at the College of William & Mary. The course provided an overview of the challenges faced by intertidal organisms and discussed their adaptations in a variety of intertidal habitats. The course featured a mixture of lectures, activities, and paper discussions. Students were evaluated on a presentation and a research paper on an intertidal organism of their choice.

#### NSF GK-12 P.E.R.F.E.C.T. Fellowship – 2012-2013 – Booker T. Washington Middle School

The goal of the NSF GK-12 program is for graduate students to integrate their research into elementary, middle, and high school classrooms. I assisted the seventh grade Life Sciences class of Mr. Tim Jones, incorporating aspects of marine science into the curriculum. I developed lesson plans, gave lectures, designed activities, led field trips, mentored science fair participants, and assisted Mr. Jones throughout the school year in over 280 hours of contact time with students.

#### **Synergistic Activities**

#### **Professional Affiliations**

- 2009 2014. American Society of Ichthyologists and Herpetologists
- 2010 2014, 2016 present. Association for the Sciences of Limnology and Oceanography
- 2010 2014, 2016 present. American Fisheries Society
- 2010 2014. American Fisheries Society: Tidewater Chapter
- 2012 2014, 2017 present. Society for Integrative and Comparative Biology

#### **Academic Contributions**

<u>Manuscript Reviews</u> Acta Zoologica Cahiers de Biologie Marine Copeia Journal of Fish Biology Journal of Morphology Marine Biological Association of the United Kingdom Marine Biology Research Zoology Zootaxa

#### Other

Creator and host of the All About Fishes Podcast (<u>https://www.toddclardy.com/podcast</u>) a podcast centered on discussion of recent articles and research on fish biology. The podcast is on hiatus until I leave Saudi Arabia and can work out some technical difficulties associated with podcast distribution.

Social media manager for the Early Life History Section of the American Fisheries Society (<u>https://twitter.com/AFS\_ELHS</u>)