

---

## CURRICULUM VITAE

Michael J. Ghedotti

---

Department of Biology, D-8, Regis University  
3333 Regis Boulevard  
Denver, CO 80221-1099

Office phone: (303) 458-4091  
e-mail: mghedott@regis.edu

### EDUCATION

Ph.D., Biology (Systematics and Ecology), 1998 University of Kansas, Lawrence  
Dissertation: Systematics and taxonomy of the Superfamily Poecilioidea (Teleostei: Cyprinodontiformes), with  
Emphasis on the Family Anablepidae. Advisor: E. O. Wiley  
B.S., Biology, 1992 Undergraduate Research Mentor: G. R. Smith University of Michigan, Ann Arbor

### PROFESSIONAL EXPERIENCE

Professor of Biology, 2010–present (*See below for courses taught.*) Regis University, Denver  
Associate Professor of Biology, 2004–2010; Assistant Professor of Biology, 1998–2004  
Department of Biology Chairperson, (rotating elected position) 2006–2009, Acting SP-FA 2010  
Department of Chemistry Associate Chair (part of Department reorientation plan) 2022–2024  
Graduate Teaching Assistant, 1992–1998 University of Kansas, Lawrence  
Kansas Fish Identification Specialist, Summers 1995–1997 Kansas Dept. of Wildlife & Parks  
Curatorial Assistant (Ichthyology), Summers 1993–1998 U. of Kansas Natural History Museum  
Public Education Instructor, 1994–1998 U. of Kansas Natural History Museum, Lawrence  
Half hour to week-long classes on fishes, vertebrates, invertebrates, and aquatic biology to day-care groups,  
school groups of all ages, home-schooled children, nursing-home residents, and the public.

### ASSOCIATE APPOINTMENT

Museum Associate (Researcher). J. F. Bell Museum of Natural History, University of Minnesota, 2004–pres.

### COURSES TAUGHT (above line = in last 5 yrs.; ‡ = asynchronous online & designed course-D2L; \* = multi-section lab coordinator)

#### **Introductory & Non-Majors**

General Biology I: Organismic w/  
Honors & Non-Honors Labs.\*  
Intro. To Biomedical Terminology‡  
Principles of Human Anatomy‡  
Science and the Environment‡  
Intro. to Enviro. Sci. with Lab.  
Molecular & Cellular Biol. Lab\*  
Biological Anthropology with Lab.  
Human Biology with Laboratory  
Hist. and Diversity of Orgs. Lab.

#### **Biology Major Upper-Division**

Human & Compar. Anat. w/ Lab.  
Evolution  
Marine Biology  
Marine Biodiversity & Conserv.  
Lab (Belize sp.brk. travel cse.)  
Seminar in Evolutionary Biology  
Aquatic and Fisheries Ecology  
Developmental Bio. with Lab.  
Ichthyology with Laboratory  
Seminar in Biol., Soc., and Ethics  
Systematic Biology

#### **Graduate**

Intro. to Enviro. Biology Skills  
Advanced Ecology  
Advanced Field Ecology Laboratory  
Environmental Biology Externship  
Seminars in Biomedical Sci. I–IV

#### **Non-Science Integrative Courses**

Science and Science Fiction (first-  
semester writing seminar)  
Immigration and America Seminar  
(human diversity-focused)  
Honors Chaos & Order Seminar  
(philosophy of science focus)

### RESEARCH INTERESTS

Anatomy, evolution, and systematics of fishes, especially bioluminescence and deep-sea specializations.  
North American aquatic natural history, especially of fishes and crayfishes.  
High plains and foothills herbaceous-plant natural history, community ecology, and restoration.  
Incorporation of research experiences into collegiate education.

### PROFESSIONAL MEMBERSHIPS

American Society of Ichthyologists and Herpetologists (ASIH), 1992–present  
Society for Integrative and Comparative Biology (SICB), 2020–present  
Society for the Study of Evolution (SSE), 1994–2008, 2017–present  
Southwestern Association of Naturalists (SWAN), 1997–2004, 2020–present

## TECHNICAL SKILLS

Asynchronous online, hybrid-online, and “flipped” course design  
Paraffin histology and clearing & staining of vertebrates for skeletal study.  
DNA extraction, amplification, purification, and sequencing – traditional Sanger.  
Collection and identification of fish and crayfish specimens.  
Identification of North American high-plains herbaceous plants.  
Museum curation of alcohol-preserved, skeletal, and glycerol fish and fw. crustacean specimens.

## PEER-REVIEWED PUBLICATIONS (27) (\* = indicates Regis University Undergraduate co-author)

### **Anatomy, Evolution, & Systematics (18)**

- Smith, W.L., **M.J. Ghedotti**, O. Domínguez-Domínguez, C. McMahan, R.P. Martin, M.G. Girard, and M.P. Davis. 2022. Investigations into the ancestry of the Grape-eye Seabass (*Hemilutjanus macrophthalmos*) reveal novel limits and relationships for the Acropomatiformes (Teleostei: Percomorpha). *Neotropical Ichthyology* 20(3):e210160. DOI: 10.1590/1982-0224-2021-0160.
- Ghedotti, M.J.**, H.M. DeKay\*, A.J. Maile, W.L. Smith, and M.P. Davis. 2021. Anatomy and evolution of bioluminescent organs in the slimeheads (Teleostei: Trachichthyidae). *Journal of Morphology* 282:820-832. DOI: 10.1002/jmor.21349.
- Ghedotti, M.J.**, W.L. Smith, & M.P. Davis. 2019. The first evidence of intrinsic epidermal bioluminescence within ray-finned fishes in the linebelly swallower *Pseudoscopelus sagamianus* (Chiasmodontidae). *Journal of Fish Biology* 95(6): 1540–1543. DOI: 10.1111/jfb.14179.
- Ghedotti, M.J.**, J.P. Gruber\*, R.W. Barton\*, M.P. Davis, and W.L. Smith. 2018. Morphology and evolution of bioluminescent organs in the glowbellies (Percomorpha: Acropomatidae) with comments on the taxonomy and phylogeny of Acropomatiformes. *Journal of Morphology* 279:1640-1653. DOI:10.1002/jmor.20894.
- Ghedotti, M.J.** and M.P. Davis. 2017. The taxonomic placement of three fossil *Fundulus* species and the timing of divergence within the North American topminnows (Teleostei: Fundulidae). *Zootaxa* 4250(6):577-586. DOI: 10.11646/zootaxa.4250.6.5.
- Ghedotti, M.J.**, R.W. Barton\*, A.M. Simons, and M.P. Davis. 2015. The first report of luminescent liver tissue in fishes: Evolution and structure of bioluminescent organs in the deep-sea naked barracudinas (Aulopiformes: Lestidiidae). *Journal of Morphology* 276(3):310-318. DOI: 10.1002/jmor.20341.
- Ghedotti, M.J.** and M.P. Davis. 2013. The phylogeny, classification, and evolution of salinity tolerance of the North American topminnows and killifishes, Family Fundulidae (Teleostei: Cyprinodontiformes). *Fieldiana, Life and Earth Sciences* 7(1564):1-64. DOI: 10.3158/2158-5520-12.7.1
- Lucinda, P.H.F., **M.J. Ghedotti**, and J.G. Weferson. 2006. *Jenynsia diphyes* (Teleostei, Cyprinodontiformes) a new species of anablepid fish from southern Brazil and its phylogenetic position. *Copeia* 2006: 613-622. DOI: 10.1643/0045-8511(2006)6[613:ANJSTC]2.0.CO;2
- Ghedotti, M.J.**, A.M. Simons, & M.P. Davis\*. 2004. Morphology and phylogeny of the studfish clade, subgenus *Xenisma* (Teleostei: Cyprinodontiformes). *Copeia* 2004(1): 53-61.
- Ghedotti, M. J.** 2003. Family Anablepidae (Four-eyed fishes, onesided livebearers and the white eye). Section In R. E. Reis, S. O. Kullander, & C. J. Ferraris, Jr. (Eds.) *Check List of the Freshwater Fishes of South and Central America*. Porto Alegre, Brazil, Edipucrs. Pp. 582-585.
- Ghedotti, M.J.** & E.O. Wiley. 2002. Anablepidae, Poeciliidae, Rivulidae. Three separate family accounts in: K.E. Carpenter (Ed.) *United Nations FAO Species Identification Guide for Fisheries Purposes, The living marine resources of the Western Central Atlantic. Volume 2. Bony fishes part 1 (Acipenseridae to Grammatidae)*. FAO of the UN, the European Commission, and the American Society of Ichthyologists and Herpetologists (Special Pub. 5).
- Ghedotti, M.J.**, A.D. Meisner, & P.H.F. Lucinda. 2001. A new species of *Jenynsia* (Teleostei: Cyprinodontiformes) from southern Brazil and

its phylogenetic relationships. *Copeia* 2001(3): 726-736.

**Ghedotti, M.J.** 2000. Phylogenetic analysis and taxonomy of the poecilioid fishes (Cyprinodontiformes: Teleostei). *Zoological Journal of the Linnean Society* 130: 1-53.

Meisner, A.D., J.R. Burns, & **M.J. Ghedotti**. 2000. Mode of embryonic nutrition in four species of *Jenynsia* (Teleostei: Atherinomorpha: Anablepidae). In B. Norberg, O.S. Kjesbu, G.L. Taranger, E. Anderson, & S.O. Stefansson. (Eds.) *Proceedings of the 6<sup>th</sup> International Symposium on the Reproductive Physiology of Fish*. Bergen, Norway, University of Bergen Press. Pp. 178.

**Ghedotti, M.J.** 1998. Phylogeny and classification of the Anablepidae (Cyprinodontiformes: Teleostei). Chapter In L.R. Malabarba, R.E. Reis, R.P. Vari, Z.M.S. Lucena, & C.A.S. Lucena. (Eds.) *Phylogeny and Classification of Neotropical Fishes*. Porto Alegre, Brazil, Edipucrs. Pp. 561-582.

**Ghedotti, M.J.** and M.J. Grose. 1997. Phylogenetic relationships of the *Fundulus nottii* species group (Fundulidae, Cyprinodontiformes) as inferred the cytochrome-*b* gene. *Copeia* 1997(4):858-862.

**Ghedotti, M.J.** and S.H. Weitzman. 1996. A new species of *Jenynsia* (Cyprinodontiformes: Anablepidae) from Brazil with comments on the composition and taxonomy of the genus. *Occasional Papers of the University of Kansas Natural History Museum* 179:1-25.

**Ghedotti, M.J.** and S.H. Weitzman. 1995. Two new species of *Jenynsia* (Cyprinodontiformes, Anablepidae) from southeastern Brazil. *Copeia* 1995(4): 939-946.

#### **Ecology, Conservation, & Natural History (4)**

Dimmick, W.W., **M.J. Ghedotti**, M.J. Grose, A.M. Maglia, D. Meinhardt, and D. Pennock. 2001. The evolutionarily significant unit and adaptive criteria: a response to Young. *Conservation Biology* 15(3): 788-790.

Dimmick, W.W., **M.J. Ghedotti**, M.J. Grose, A.M. Maglia, D. Meinhardt, and D. Pennock. 1999. The importance of systematic biology in defining units of conservation. *Conservation Biology* 13(3):1-9.

**Ghedotti, M.J.** 1998. An annotated list of the crayfishes of Kansas with first records of *Orconectes macrus* and *Procambarus acutus* in Kansas. *Transactions of the Kansas Academy of Sciences* 101(1-2):54-57.

**Ghedotti, M.J.**, J.C. Smihula, and G. R. Smith. 1995. Zebra mussel predation by round gobies in the laboratory. *Journal of Great Lakes Research* 21(4): 665-669.

#### **Identification Guides and Reviews (4)**

Cashner, R.C., J. Schaefer, M. L. Warren Jr., A. A. Echelle, F. Galvez, and **M. J. Ghedotti**. 2020. Fundulidae: Topminnows. In Warren, M., & Burr, B., (Eds.), *The Freshwater Fishes of North America, Vol. II: Osmeridae to Poeciliidae*. (pp. 549-608). Baltimore, MD: Johns Hopkins U. Press.

**Ghedotti, M. J.**, M. P. Davis, M. P., & Echelle, A. A. 2020. Poeciliidae, The Livebearers. In Warren, M., & Burr, B., (Eds.), *The Freshwater Fishes of North America, Volume II: Osmeridae to Poeciliidae*. (pp. 674-737). Baltimore, MD: Johns Hopkins University Press.

Wiley, E.O. & **M.J. Ghedotti**. 2002. Cyprinodontidae. In: K.E. Carpenter (Ed.) *United Nations FAO Species Identification Guide for Fisheries Purposes, The living marine resources of the Western Central Atlantic. Volume 2. Bony fishes part 1 (Acipenseridae to Grammatidae)*. FAO of the UN, the European Commission, and the American Society of Ichthyologists and Herpetologists (Special Pub. 5).

Wiley, E.O. & **M.J. Ghedotti**. 2002. Fundulidae. In: K.E. Carpenter (Ed.) *United Nations FAO Species Identification Guide for Fisheries Purposes, The living marine resources of the Western Central Atlantic. Volume 2. Bony fishes part 1 (Acipenseridae to Grammatidae)*. FAO of the UN, the European Commission, and the Amer. Soc. of Ichthyol. and Herpetol. (Special Pub. 5).

#### **Scholarship of Teaching (1)**

**Ghedotti, M.J.**, C. Fielitz, & D.J. Leonard\*. 2004. Using independent research projects to foster learning in the comparative vertebrate anatomy laboratory. *Bioscene, Journal of College Biology Teaching*. 30(1): 19-24.

## NEXT MANUSCRIPTS TO BE SUBMITTED OR IN PREPARATION

- Ghedotti, M.J.**, K.C. Agudo\*, F. Gonzalez\*, and B. Frable. (manuscript in draft, to submit May 2023). Ultra-black coloration in deep-sea anguillid eels (Anguilliformes). For submission to *Environmental Biology of Fishes*.
- Ghedotti, M.J.**, J. Egan, J. Gruber \*, and K.A. Voss. (in preparation). Diet of co-occurring deep-water glowbelly species (genus *Acropoma*) from the Taiwan Strait. Likely submission to *J. of Fish Biology*.
- Ghedotti, M.J.**, T. Erickson\*, and K.A. Voss. (in preparation). Effects of extensive within-basin fire on fish and macroinvertebrate communities in a small stream in the plains-foothills transition zone of northeaster Colorado. Likely for submission to *Southwestern Naturalist*.

## RESEARCH GRANTS

- Boulder County Nature Association Grant, Co-PIs: K.A. Voss & **M.J. Ghedotti**. Impact of the Marshall Fire on macroinvertebrate and fish communities in Coal Creek at the interface of the burn area within the Coal Creek Basin, \$2,050. 2022. – Extramural
- URSC Faculty Research and Scholarship Grant, Regis University, Anatomy and Evolution of bioluminescence in deep-sea fishes, luminous slimeheads and barbeled dragonfishes, \$4,996. 2018.
- URSC Faculty Research Grant, Regis University, PI: Michael Ghedotti, Evolution of bioluminescence in a group of deep-sea fishes, the glow bellies and sweepers, \$2500, 2015.
- Faculty Development Committee Summer Research Grant, Regis University, PI: Michael Ghedotti, Evolution of bioluminescence in a group of deep-sea fishes, \$3000 for Summer research, 2015.
- NSF RUI DEB-0415633, PI: Michael Ghedotti, The evolution of placentas in the poeciliid fishes: An empirical study of the evolution of complexity, \$166,000 over five years, extended to six, 2004-2010. (Collaborative.) [NSF REU Supplement DEB-0620242 to RUI DEB-0415633, PI: Michael Ghedotti. \$6,000 for one student for Summer 2006.] – Extramural with Overhead
- SPARC Research Grant, Regis University, SPARC, PI: Michael Ghedotti, The phylogenetic relationships of the fossil North American fishes in the genus *Fundulus*, \$2310 for Summer research, 2000.
- Ernst Mayr Grant, Museum of Comparative Zoology, Harvard University, PI: Michael Ghedotti, Systematics and phylogenetic relationships of the family Anablepidae, \$800, 1996. – Extramural
- Panorama Society Grant, University of Kansas Natural History Museum, PI: Michael Ghedotti, Systematics and phylogenetic relationships of the family Anablepidae, \$500, 1997. mtDNA sequencing and molecular systematics of the *Fundulus nottii* species group, \$400, 1993.

## PRESENTATIONS AT PROFESSIONAL MEETINGS (LAST 10 YEARS) (\*indicates Regis U. undergrad. co-author; o = oral presentation)

- M.J. Ghedotti, K.C. Agudo\*, F.M. Gonzalez\*, W.L. Smith, & M.P. Davis. (2022). The Caudal Bioluminescent Organ of the Pelican Eel, *Eurypharynx pelecanoides*, and Its Evolution (Anguilliformes). American Society of Ichthyologists and Herpetologists, Spokane, WA, July, 2022.
- Sorenson, L\*, M. Borham\*, R. Barka\*, & M.J. Ghedotti. (2020). Effects of bison (*Bison bison*) grazing intensity on plant communities at the Rio Mora National Wildlife Refuge. Front Range Student Ecology Symposium – CSU, Fort Collins, CO, February 2020. -student presented
- DeKay\*, H., M.P. Davis, W.L. Smith, & M.J. Ghedotti. (2019). Morphology and evolution of the luminous roughy bioluminescent organ (Teleostei: Trachichthyidae). American Society of Ichthyologists and Herpetologists (ASIH) – Salt Lake City, UT – July 24-29, 2019. -student presented
- Ghedotti, M. J., & M.P. Davis. (2019). Anatomy and Evolution of the Greeneye Bioluminescent Organ (Teleostei: Chlorophthalmidae). ASIH – Salt Lake City, UT – July 24-29, 2019.
- Hovey\*, T., M.P. Davis, W.L. Smith, & M.J. Ghedotti. (2019). Histology of the Opercular Bioluminescent Organ of *Astronesthes* Snaggletooth Fishes (Teleostei: Stomiidae). ASIH – Salt Lake City, UT – July 24-29, 2019. -student presented
- M.J. Ghedotti, H. DeKay, J.N. Gruber\*, W.L. Smith, & M.P. Davis. 2018. Morphology of the luminous roughy (*Aulotrachichthys prosthemi*) bioluminescent organ (Teleostei: Trachichthyidae). American Society of Ichthyologists and Herpetologists, Rochester, NY, July, 2018.

- M.J. Ghedotti, J.N. Gruber\*, R.W. Barton\*, W.L. Smith, & M.P. Davis. 2017. Morphology of the glowbelly (*Acropoma*) bioluminescent organ (Teleostei: Acropomatidae). American Society of Ichthyologists and Herpetologists, Austin, TX, July, 2017. -student presented
- M.J. Ghedotti & M.P. Davis. 2016. Phylogenetic relationships of three fossil *Fundulus* species and the timing of divergence within the North American topminnows. American Society of Ichthyologists and Herpetologists, New Orleans, LA, July 6-10, 2016.
- M.J. Ghedotti, R.W. Barton\*, J.N. Gruber\*, J. Muñoz\*, & M.P. Davis. 2016. Morphology of the glowbelly (*Acropoma*) bioluminescent organ (Teleostei: Acropomatidae). Asian Society of Ichthyologists. Asian Society of Ichthyologists, Taipei, Taiwan, May 18-21, 2016.
- Barton, R.W.\* , M.P. Davis, W.L. Smith, J. Munoz\*, & M.J. Ghedotti. 2015. Morphology and evolution of bioluminescent organs in the glow bellies and sweepers (Acropomatidae and Pempheridae). American Society of Ichthyologists and Herpetologists, Reno, NV, July 15-19, 2015. -student presented
- Ghedotti, M.J., R. W. Barton\*, & M.P. Davis. Morphology of the ventral luminescent organ of the Japanese barracudina (*Lestrolepis japonicus*), with comments on the evolution of bioluminescence within the barracudinas (Teleostei: Aulopiformes). (Poster) American Society of Ichthyologists and Herpetologists, Annual Meeting. Chattanooga, TN, 2014.
- Ghedotti, M.J. and M.P. Davis. Evolutionary History of the North American Topminnows and Killifishes (Family Fundulidae, Cyprinodontiformes): The Importance of Morphological, DNA, and Fossil Evidence. Morphology in Ichthyological Phylogenetics Symposium. American Society of Ichthyologists and Herpetologists, Annual Meeting. Albuquerque, NM, 2013. o

#### 17 Prior Presentations

#### INVITED PRESENTATIONS

- Ghedotti, M.J. Anatomy and evolution of bioluminescence in fishes: functional and developmental patterns. Department of Biology Seminar Series, Regis College, Denver, CO. 27 January 2020.
- Ghedotti, M.J. So many ways to glow: Anatomy and evolution of bioluminescence in deep sea fishes. Department of Biology Seminar Series, Regis College, Denver, CO. 14 September 2015.
- Ghedotti, M.J. From the Shoreline to the Deep Sea: Fish Evolution in “Extreme” Environments. Department of Biology Seminar Series, Regis College, Denver, CO. 9 September 2012.
- Ghedotti, M.J. Narratives of Evolution: The Evolution of Placentas and Other Fish Tales. Faculty Lecturer of the Year, Regis College, Denver, CO (Talk) 2 March 2007.
- Ghedotti, M.J. Shifting Paradigms and the Evolution of Livebearing in Fishes. Annual Nancy Pence Groseclose Lecture, Emory & Henry College, Emory, VA (Talk) 14 March 2002.

#### AWARDS

- Dean’s Award for Outstanding Service to the College — Regis College, 2008.
- Faculty Lecturer of the Year, in recognition of “creative achievement in teaching and/or publication in the academic areas of the College” — Regis College, \$1500, 2007.
- Charter Faculty Membership, for distinguished teaching and service —Alpha Epsilon Delta Pre-Medical Honor Society, Gamma Chapter, Regis University, 2004.
- Honorary Faculty Membership, for distinguished teaching and service—Alpha Sigma Nu Jesuit Honor Society, Regis University, 2002.
- Stoye Award for Best Student Presentation in Ichthyology—American Society of Ichthyologists and Herpetologists (Guelph, Ontario meetings), \$200, 1998.
- Carlin Graduate Teaching Assistant Award—Chancellor, University of Kansas, \$1000, 1997.
- Kenneth B. Armitage Award for Excellence in Teaching—Division of Biology, University of Kansas, \$200, 1995.

## SERVICE TO UNIVERSITY (LAST 10 YEARS)

Regis University Faculty Member on 3+3+3 Board of Trustees + Administration + Faculty Discussion Group, Chaired by University President (*appointed*). 2019-2022.

Regis University Regis College Academic Dean Search Chair (*appointed*). 2021-2022.

Regis College, Committee on Rank and Tenure (*elected*). 2005-11 (Chair 2007-09), 2014-2017, and 2019-2022 (Chair Fall 2020).

College for Contemporary Liberal Studies/School for Professional Advancement-Regis College Integration Design Team (Spring-Summer 2020 -2022)

Regis College, Faculty Development Committee (*elected*). 2000-2002 (Chair 2001-02) and 2018-2021 (Co-Chair 2019-2021)

Regis University Higher Learning Commission Accreditation Task Force Criterion 5 Co-Chair (*appointed*). 2015-2018.

Regis University Provost's-Office Student-Scholarship Celebration "Think Tank", *appointed* (Spring 2017, reconvened Spring 2018-Fall 2018)

Regis University Affiliate Faculty Member Task Force member, *appointed* (Spring 2018)

Regis University Task Force on Affiliate/Adjunct Faculty Member Engagement (*appointed*). 2017-2018.

Regis University Compensation/Total Rewards and Employee Engagement Committee (*appointed*). Fall 2015-2017

Regis University Regis College Academic Dean Search Chair (*appointed*). 2014-2015.

Regis University Academic Affairs Committee of the Board of Trustees (*appointed*). 2014-2016.

Regis University Budget Committee (*appointed*). 2012-2015.

Regis College, (Receiver) Associate Chair of Chemistry (*appointed*). 2022-present.

Regis College, Academic Advising Team (*appointed*). 2000-present.

Regis College Faculty Handbook Committee (*elected*). 2016-2019 (Chairperson 2016-2019)

Regis College, Biology Department Faculty Search Chair – Ecologist. 2017-2018.

Regis College, Biology Department Faculty Search Chair – Microbiologist. 2016.

Regis College, Budget Advisory Committee (*appointed*). 2012-2014.

Regis College, Biology Department Faculty Search Chair – Quantitative Ecologist. 2015.

Regis College, Core and Curriculum Committee (*elected* – *Natural Science Rep.*). 2011-2014.

Regis College, Global Environmental Awareness Curriculum Coordinator (*appointed*). 2012-2015.

Regis College, Environmental Studies Program Advisory Committee (*ad hoc*). 2000-2015.

## SERVICE TO SCIENTIFIC/ACADEMIC COMMUNITY

American Society of Ichthyologists and Herpetologists, *Copeia* (Journal) Editorial Board; 2018-2020.

Scientific Peer-Reviewer in the Past Year –*Copeia*, *Integrative Organismal Biology*, *Journal of Fish Biology*, *Neotropical Ichthyology*

Scientific Reviewer – *Anatomical Sciences Education*, *Biological Journal of the Linnean Society*, *BMC Evolutionary Biology*, *Copeia/Ichthyology & Herpetology*, *Diseases of Aquatic Organisms*, *Freshwater Crayfish*, *Hydrobiologia*, *Ichthyological Exploration of Freshwaters*, *Integrative Organismal Biology*, *Journal of Biogeography*, *Journal of Cognitive Affective Learning* (Scholarship of Learning Journal), *Journal of Fish Biology*, *Journal of Natural History*, *Molecular Phylogenetics and Evolution*, *Neotropical Ichthyology*, *Palaeontology*, *Phylogeny and Classification of Neotropical Fishes* (Edited Volume), *PLOS One*, *Proceedings of the Biological Society of Washington*, *Royal Society Open Science*, *Spixiana*, *Systematics and Biodiversity*, *Tropical Zoology*, *ZooKeys*, *Zoological Journal of the Linnean Society*, *Zootaxa*.

Biology Textbook Reviewer –Pearson (Introductory College Biology Four Chapters on Macroevolution and Diversity) 2014; Academic Press (The Dissection of Vertebrates; three chapters on fish

anatomy) 2010; Sinauer (Introductory College Biology Chapters on Biogeography, Diversity, and Systematics) 2003; Saunder's Publishing (Introductory College Biology Chapter on Diversity and Systematics) 1998.

Competitive Grant Reviewer – Agencie Nationale de la Recherche, France– DEFSOC1 (Efficient resource management and adaptation to climate change section) / CE02 – English pre-proposal and full proposal review and Panel review in Paris (Jan. and June 2016, 2017, 2018); National Science Foundation, DEB Systematics and Biodiversity Panel Review, Doctoral Dissertation Improvement Grants, December 2014; George Maier Grant Fund Reviewer, American Killifish Association, Grant Review Committee, Online Panel Review 2015-2020; Colorado Native Plant Society, Online Panel Review 2004-2005; Department of Education FIPSE Grants 2002-Expert Reviewer, Environmental Science, 2000; KU Natural History Museum Panorama Society Grants, 1997–1998; Michigan Sea Grant Program, 1997.

Member of the American Society of Ichthyologists and Herpetologists Editorial Policy Committee; 2006-2010.

Co-Chairperson of American Society of Ichthyologists and Herpetologists Stoye and Storer Awards Judging Committee; Tampa, Florida, July 6-12, 2005.

Judge and Subcommittee Chairperson for the American Society of Ichthyologists and Herpetologists Stoye Award for best graduate student oral presentation in the area of **Ichthyology**; Tampa, Florida, July 6-12, 2005.

Judge for the American Society of Ichthyologists and Herpetologists Stoye Award for best graduate student oral presentation in the area of Conservation Biology; Norman, Oklahoma, May 27-31, 2004

American Society of Ichthyologists and Herpetologists, Genetics, Development, & Morphology Editorial Review Board, 2003-2005.

**References available upon request.**