

Charles M. Watson, Ph.D.

Texas A&M University – San Antonio
Department of Life Sciences
San Antonio, Texas

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<http://www.watsonecolab.com>

EDUCATION

- Ph.D. 2008 The University of Texas at Arlington, Arlington, Texas
Major: **Quantitative Biology**
Dissertation Topic: *Comparative Thermal Biology of the Plestiodon fasciatus Species Complex*
- M. S. 2004 The University of Texas at Arlington, Arlington, Texas
Major: **Biology**
Thesis Topic: *The Effects of Controlled Burning on Ground Skink Populations in a Mixed Pine Hardwood Habitat in East Texas*
- B. S. 1998 Stephen F. Austin State University, Nacogdoches, Texas
Major: **Wildlife Science** Minor: **Forestry**

ACADEMIC POSITIONS

Full-Time

2025–present	<i>Professor of Biology</i> (tenured)	Texas A&M University–San Antonio
2024–2025	<i>Dean's Fellow for Graduate Studies</i>	Texas A&M University–San Antonio
2021–2025	<i>Associate Professor of Biology</i> (tenured)	Texas A&M University–San Antonio
2016–2021	<i>Associate Professor of Biology</i> (tenured)	Midwestern State Univ., Wichita Falls TX
2013–2016	<i>Assistant Professor of Biology</i>	Midwestern State Univ., Wichita Falls TX
2011–2013	<i>Assistant Professor of Biology</i>	McNeese State Univ., Lake Charles LA
2008–2011	<i>Lecturer / Laboratory Coordinator</i>	The University of Texas at Arlington

Adjunct/Part-Time

2010–2011	<i>Adjunct Instructor</i>	Texas A&M Commerce, Commerce TX
2007	<i>Adjunct Instructor</i>	The Univ. of North Texas, Denton TX
2006–2008	<i>Graduate Teaching Assistant</i>	The Univ. of Texas at Arlington
2004–2005	<i>Lecturer</i>	Richland College, Dallas TX

PROFESSIONAL POSITIONS

2003–2005	<i>Reptile/Amphibian Supervisor</i>	The Dallas Zoo, Dallas TX
2001–2003	<i>Reptile/Amphibian Keeper</i>	The Dallas Zoo, Dallas TX
1998–2001	<i>Reptile/Amphibian Keeper</i>	The Ellen Trout Zoo, Lufkin TX

HONORS AND AWARDS

2014–2019	<i>Biology Professor of the Year</i>	MWSU
2014–2015	<i>Faculty Member of the Year</i>	MWSU Student Government Assn.
2012–2013	<i>Endowed Professor in Science</i>	McNeese State University

- Watson, C.M.** & C.L. Cox. 2025. The integrative biology of decoy coloration in lizards. *The Journal of Experimental Biology*. Invited Review. 228 (8).
- Richards, H. & **C.M. Watson** 2024 Evidence of alternative prey selection by the ant specialist, *Phrynosoma cornutum*. *Southwestern Naturalist* 67, 298-300
- Esquivel, C.* & **C.M. Watson** 2024 Variation in energy and moisture content of milkweed (*Asclepias*) foliage across species. *Southwestern Naturalist* 67, 234-237
- Alujević, K.**, L. Bakewell, I. Clifton, C. Cox, L. Frishkoff, E. Gangloff, G. Garcia-Costoya, M. Gifford, M. Glenwinkel, S. Gulati, A. Head, M. Miles, C. Pettit, C.M. Watson, K. Wuthrich & M. Logan 2024 3D printed models are an accurate, cost-effective, and reproducible tool for quantifying terrestrial thermal environments. *Journal of Thermal Biology* 119
- Gripshover, N.D.**, P. Hennessey, L.D. McBrayer, J.M. Meik, C.M. Watson & C.L. Cox 2023 When food fights back: skull morphology and feeding behavior of centipede-eating snakes. *Integrative and Comparative Biology* 63, 34–47
- Watson, C.M.** & C.L. Cox 2021 Elevation, oxygen, and the origins of viviparity. *Journal of Experimental Zoology–B* 336, 457–469
- Suárez-Rodríguez, O., G. Suárez-Varón, M. Marín-Vera & **C.M. Watson** 2020 Tail bifurcation in *Plestiodon copei*. *Revista Latinoamericana de Herpetologia* 3, 146–149
- Heninger, R.*, C.M. Watson & **C.L. Cox** 2020 Relative fitness of decoy coloration is mediated by habitat type. *Zoology* 142, 125820
- Kravchuk, L.* & **C.M. Watson** 2020 Corn snakes can behaviorally enhance crypsis by choosing complex backgrounds and substrate. *Animal Behavior and Cognition* 7, 39–48
- Watson, C.M.**, Z. Degon*, W. Krogman & C.L. Cox 2019 Evolutionary and ecological forces underlying ontogenetic loss of decoy coloration. *Biological Journal of the Linnean Society* 128, 138–148
- Watson, C.M.** & W.W. Burggren 2016 Interspecific differences in metabolic rate and metabolic temperature sensitivity create distinct thermal ecological niches in lizards. *PLOS One* 11(10), 0164713
- Watson, C.M.** & G. Francis*. 2015. Three-dimensional printing as an effective method of producing anatomically accurate models for studies in thermal ecology. *Journal of Thermal Biology* 51, 42–46
- Watson, C.M.**, R. Makowsky & J.C. Bagley 2014 Reproductive mode evolution in lizards revisited: updated analyses examining geographic, climatic and phylogenetic effects support the cold-climate hypothesis. *Journal of Evolutionary Biology* 27, 2767–2780
- Watson, C.M.** & L. Gough 2012 The role of temperature in determining distributions and coexistence of three species of *Plestiodon*. *Journal of Thermal Biology* 37, 374–379
- Watson, C.M.** & D.R. Formanowicz 2012 A comparison of maximum sprint speed among the five-lined skinks (*Plestiodon*) of the southeastern United States at ecologically relevant temperatures. *Herpetological Conservation and Biology* 7, 75–82
- Watson, C.M.**, C. Roelke, P. Pasichnyk* & C.L. Cox 2012 The fitness consequences of the autotomous blue tail in lizards: an empirical test of predator response using clay models. *Zoology* 115, 339–344

- Watson, C.M.** & M.L. Nicholson 2011 Recovery of the macroarthropod community within the leaf-litter of an East Texas mixed hardwood–pine habitat following a prescribed burn. *Texas Journal of Science* 63, 37–46
- Watson, C.M.** 2009. Selection of available post-fire substrate by the ground skink *Scincella lateralis* (Squamata: Scincidae). *Texas Journal of Science* 61, 219–224
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Editor Reviewed Publications

- Arzate-Garay, L., **J.R. Flores-Santin**, E. Oviedo-Hernandez, G. Andrade-Soto, G.P.Hernandez-Lopez & C.M. Watson 2023 *Barisia imbricata* (Transvolcanic Alligator Lizard) coloration. *Herpetological Review* 54, 292
- Arzate-Garay, L., **J.R. Flores-Santin**, G.P. Hernandez-Lopez & C.M. Watson 2022 *Barisia imbricata*, arboreal habitat use. *Herpetological Review* 53, 320
- Watson, C.M.**, G. Estep, N. Barrier & I.H. Watson 2018 *Pantherophis obsoletus*, vulnerability during predation. *Herpetological Review* 49, 137
- Thibodeau, M.C., R.C. Vogtsberger & **C.M. Watson** 2017 *Phrynosoma cornutum*, diet. *Herpetological Review* 48, 440
- Merchant, M., M.H. Shirley & **C.M. Watson** 2016 *Paleosuchus spp.* and *Osteolaemus spp.* Defense mechanisms. *Herpetological Review* 47, 660–663
- Fox, M.R.*, R.W.Stewart & **C.M Watson** 2014 Geographic distribution: *Plestiodon tetragrammus brevilineatus* (short-lined skink). *Herpetological Review* 45, 464
- Watson, C.M.** 2007 *Thamnophis proximus*: foraging biology *Herpetological Review* 38, 346
- Watson, C.M.** & D.R. Formanowicz 2007 *Plestiodon fasciatus*: prey. *Herpetological Review* 38, 82.
- Watson, C.M.** & J.C. Watson 2005 *Eumeces fasciatus*: hatchlings. *Herpetological Review* 36, 318.
- Watson, C.M.** & M.S. Vaughan 2004 *Liophis typhlus*: coloration. *Herpetological Review*. 35, 178.
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MAGAZINE ARTICLES

- Watson, C.M. 2007 The five-lined skinks: “scorpion lizards of the Southeast” *Reptiles*, October, 59–65.
- Watson, C.M. 2004 Setup and maintenance of a successful herp quarantine. *Reptiles USA*, Annual Issue, 108–116.
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INVITED PRESENTATIONS

- 2023 *Tails of deception: a decade of research uncovering the adaptive advantage of decoy coloration in lizards.* Department of Biology, Trinity University.
- 2022 *Living to tell the tail....the adaptive advantage of anti-predation coloration in lizards.* Ecology, Evolution, and Conservation Biology, University of Nevada–Reno.
Decoy coloration in lizards: a tail of deception. Department of Biology, Texas State University.
- 2019 *Science is a team sport: Darwin’s indelible stamp on collaborative research in my laboratory.* Darwin Day Keynote. Cameron University.
- 2017 *The physiology of fitness: trade-offs in the evolution of complex traits.* Universidad Autónoma del Estado de México.
- 2016 *Out of thin air...temperature, hypoxia, and the evolution of viviparity in lizards.* Department of Biology, Georgia Southern University.

Out of thin air...temperature, hypoxia, and the evolution of viviparity in lizards. Department of Biology University of North Texas.

Managing game species to maximize nongame species conservation. Texas Horned Lizard Conservation Coalition Meeting, Mason, TX.

2015 *Insights into the evolution of metabolic, digestive, and reproductive phenotypes of reptiles.* Department of Biology, Howard Payne University.

2014 *A tail's tale: The functional significance and evolution of brightly colored tails in lizards.* Dallas–Fort Worth Herpetological Society.

2007 *Natural history and ecology of the five-lined skinks.* Dallas–Fort Worth Herpetological Society.

CONFERENCE PRESENTATIONS

2025 *Promoting a standard methodology for physiological phenotyping of squamate reptiles.* Society for Integrative and Comparative Biology. Atlanta.

2024 *The ecology and evolution of decoys, a paradoxical antipredator strategy.* Society for Integrative and Comparative Biology. Seattle.

2023 *Promoting a standard methodology for physiological phenotyping of squamate reptiles.* Integrative Biology Workshop VII. Toluca, Mexico.

2023 *Sex-specific interactions among signal expression, energetics, and parasitism in canyon lizards.* Society for Integrative and Comparative Biology. Austin.

2021 *Temperature, oxygen, and the origins of viviparity.* Society for Integrative and Comparative Biology. Virtual Meeting.

2020 *Comparative ecology and physiology of anoles on Dominica.* Society for Integrative and Comparative Biology. Austin.

2019 *The adaptive significance of an ontogenetic shift in coloration among skinks.* Society for Integrative and Comparative Biology. Tampa.

2018 *Variation and evolutionary dynamics of squamate metabolism.* Society for Integrative and Comparative Biology. San Francisco.

2017 *Optimal feeding frequency and its physiological “brackets.”* Society for Integrative and Comparative Biology. New Orleans.

2016 *Out of thin air . . . temperature, hypoxia, and the evolution of viviparity in lizards.* Integrative Biology Workshop VI. Toluca, Mexico.

2016 *Optimal feeding frequency and the physiological mechanisms underlying its evolution.* Evolution 2016. Austin.

2015 *A Lizard's tail in three acts: Physiology, reproduction, and predator avoidance.* Midwestern State University Faculty Forum. Wichita Falls, TX.

Thermal effects on innate immune response, respiration, and locomotor performance in the spectacled caiman, Caiman crocodilus (with M. Merchant). Society for Integrative and Comparative Biology. West Palm Beach, FL.

- 2014 *Optimal foraging frequency: A physiological component of optimal foraging theory.* Integrative Biology Workshop V. Wichita Falls, TX.
- Convergent evolution of the brightly colored tail in lizards: Implications for the evolution of color signals.* (with C. Buttermore* & C. Cox). Evolution 2014. Raleigh NC.
- 2013 *Thermal effects on innate immune response, respiration, and locomotor performance in the spectacled caiman, Caiman crocodilus* (with M. Merchant). 4th Annual Joint Vertebrate Eco-Physiology Workshop. Malinalco, Mexico.
- Notes on the remarkable physiology of the ground skink, Scincella lateralis.* Texas Herpetological Society Fall Symposium. Wichita Falls, TX.
- 2012 *Avian predators and the fitness benefits of the autotomous blue tail in lizards.* 1st Joint Congress on Evolutionary Biology. Ottawa.
- Avian predators and the convergent evolution of lizard phenotypes.* Louisiana Academy of Sciences 86th Annual Meeting. LSU–Alexandria.
- 2011 *A geographic and climatic assessment of reproductive mode in lizards* (with R. Makowsky). Evolution 2011. Norman OK.
- Ecological physiology and biogeography: Incorporating spatial physiological measures.* 3rd Annual Joint Vertebrate Eco-Physiology Workshop, Denton TX.
- 2010 *Association of reproductive mode and abiotic factors among North and Meso-American lizards of the genera Phrynosoma, Plestiodon, and Sceloporus* (with R. Makowsky). 2nd Annual Joint Vertebrate Eco-Physiology Workshop, Valle de Bravo, Mexico.
- 2008 *Combining field data with laboratory trials to explain differences in the thermal niche of three species of Plestiodon.* 1st Annual Joint Vertebrate Eco-Physiology Workshop, Toluca, Mexico.
- Thermal physiology and field observations support microhabitat diversification and spatial resource partitioning among Plestiodon* (with W. W. Burggren). Joint Meeting of Ichthyologists and Herpetologists. Montreal.
- Comparative thermal biology of three morphologically similar syntopic lizards of the genus Plestiodon.* (with L. Gough). Evolution 2008. Minneapolis.
- 2006 *Recovery of leaf litter macroinvertebrate fauna following prescribed burning* (with M. L. Nicholson). Southeastern Ecology and Evolution Conference. Tuscaloosa, AL.
- 2005 *Aren't we all enthusiasts? Finding common ground for cooperation across herpetological borders.* Texas Herpetological Society Fall Symposium, Austin.
- The effects of prescribed burning on ground skink (Scincella lateralis) populations in a mixed hardwood–pine habitat in East Texas.* 52nd Annual Meeting of the Southwestern Association of Naturalists, Huntsville, TX.

PANEL PRESENTATIONS:

- 2022 Academic Career Panel (with E. Diaz-Almeyda). University of North Texas.

- 2019 *What fueled me to be first? Stories from MSU's first-generation faculty and administrators.*
Midwestern State University Faculty Forum. Wichita Falls, TX.
- 2015 *From Campus to community: (Re)valuing the liberal arts and sciences in the 21st century.*
Midwestern State University Faculty Forum. Wichita Falls TX.

FUNDING:

EXTRAMURAL:

- 2021 *Thermal Physiology of Central Texas Lizard Communities*, PI, Ian Rockel as Primary Author
Texas Ecolabs Funding **\$2,800.00**
- 2017 *Modernization and Consolidation of the Natural History Collections at MSU into the Xeric Ecosystem Research Center (XERC)*, Co-PI and Primary Author
NSF Collections in Support of Biological Research (funded) **\$472,804.00**

INTRAMURAL:

- 2025 *The Biological Significance of 2°C: The organism-level effects of a warming planet*
TAMUSA CoAS Research Grant **\$5,250.00**
- 2019 *Dietary Niche Partitioning between an Island Endemic Anole and Its Invasive Congener*
MWSU Faculty Research Grant **\$7,300.00**
- 2017 *Completion of Research on Chitinase Production by Scincella lateralis during Digestion.*
MWSU COSM Faculty Research Award **\$875.00**
- 2016 *Determining the Physiological Effects of Hypoxia on Developing Leopard Gecko Embryos*
MWSU Faculty Research Grant **\$6,702.00**
- 2015 *Physiological and Chemical Ecology of Milkweed and Milkweed Specialists*
MWSU Faculty Research Grant **\$7,491.00**
- 2014 *Ecology and Local Biogeography of the Texas Horned Lizard, Phrynosoma cornutum*
MWSU Faculty Research Grant **\$7,474.00**
- Optimal Foraging Frequency in Snakes Phase II: Infrequently Feeding Species*
MWSU COSM Faculty Research Award **\$2,270.00**
- 2013 *Using Three-dimensional Printing to Study the Ecological Physiology of Lizards: A Novel Application for New Technology*
MWSU Faculty Research Grant **\$4,966.73**
- Digestive Physiology of Scincella lateralis and Reproductive Physiology of Plestiodon obsoletus: Field Data Collection and Laboratory Trials*
MWSU COSM Faculty Research Award **\$1,310.00**
- 2012 *Temperature Induced Incubation Time Plasticity in the Five-lined Skinks*
Shearman Research Initiative Fund Grant **\$3,500.00**
- Substrate Matching and Self-Recognition in Cryptic Snakes: Do They Know They Are Hiding?*
Shearman Research Initiative Fund Grant. **\$3,300.00**
- Enhancing Pre-med Recruitment and Recognition of McNeese State University through Undergraduate Involvement in an International Academic Conference*
MSU Alumni Association Endowment Award **\$2,000.00**
- Total: \$525,242.73**
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Courses Taught

(* Developed Course ** Revised Course †Coordinator)

Texas A&M–San Antonio (2021–Present)

*Animal Physiology + Lab***

Ecology Seminar

*Herpetology + Lab***

Invertebrate Zoology

Zoology Seminar

*The Biology of Texas**

*Evolutionary Ecology**

*Population and Community Ecology**

*Biogeography and Biodiversity**

*Vertebrate Zoology + Lab***

General Biology II

*Introduction to GIS for Natural Scientists**

*Comparative Vertebrate Anatomy**

Scientific and Technical Writing

Midwestern State University (2013–2021)

Human Anatomy and Physiology I & II

*Ecology + Lab ***

History of the Life Sciences (Graduate)

*Life II (Freshman Biology) + Lab**

Special Topic: Physiological Ecology (Grad)

*Biostatistics (Graduate)**

Seminar in Biology (Capstone)

Principles of Biology II

*Desert Ecology **

*Field Zoology***

McNeese State University (2011–2013)

Human Anatomy and Physiology + Lab†

Comparative Anatomy of the Vertebrates

Introductory Biology

*Animal Physiology***

Texas A&M–Commerce (2010–2011)

*Biogeography and Biodiversity (Graduate)**

*Geospatial Mapping (GIS)***

The University of Texas at Arlington (2006–2011)

Cellular & Molecular Biology

Structure & Function of Organisms

*Biology of Texas***

Introduction to Biology Non-Majors

Biostatistics

Cellular & Molecular Biology Lab†

Structure & Function of Organisms Lab†

Introduction to Biology Lab†

Comparative Vertebrate Anatomy Lab

Plant Science Lab

Human Anatomy and Physiology I Lab

The University of North Texas (2007)

Comparative Vertebrate Anatomy Lab

Richland College (2004–2005)

Introductory Biology + Lab

GRADUATE MENTORSHIP

Graduate Committee Chair

2025–Present Gabbi Eddy

Thesis Project TBA

M.S. Student in Biology

2025–Present Richard Alarcon

Reducing Methodological Variation in Physiological Ecology

M.S. Student in Biology

2024–Present Angela Roth

Digestive Efficiency and Microbiome Variation in Omnivorous Reptiles

M.S. Student in Biology

2023–Present Victoria Garcia

Oxygen delivery and Associated Phenotypic Plasticity in Viviparous Organisms

M.S. Student in Biology

2023–2025	Infinity Alvarez, M.S.	Biology	<i>The Thermal Physiology of the Giant Day Gecko.</i>
2023–2025	Bridgett Battaglia, M.S.	Biology	<i>Reproductive Natural History of the American Grass Mantis</i>
2022–2024	Alec John, M.S.	Biology	<i>Chitinase characterization in the digestive system of <u>Hemidactylus turcicus</u>.</i>
2021–2024	Ian Rockel, M.S.	Biology	<i>Thermal Physiology of <u>Sceloporus olivaceous</u> and <u>Sceloporus variabilis</u> in South Texas</i>
2019–2021	Doyinsola Ojo, M.S.	Biology	<i>Is male coloration a true signal of quality in <u>Sceloporus olivaceous</u>?</i>
2019–2021	Sadie Gent, M.S.	Biology	<i>Ectoparasites and Sexual Signals in <u>Sceloporus merriami</u>.</i>
2016–2021	Paige Cannedy, M.S.	Biology	<i>Effects of nicotine concentration on the physiology of the Tobacco Hornworm.</i>
2018–2020	Stephanie Fonville Taylor, M.S.	Biology	<i>Thermal Physiology of the Gulf Fritillary Butterfly Caterpillar</i>
2018–2019	David Pérez Guerra, M.S.	Biology	<i>The Effects of Hypoxia on Embryonic Physiology and Egg Morphology in Lizards</i>
2016–2018	Hannah Richards, M.S.	Biology	<i>Prey Diversity and Digestive Physiology of the Texas Horned Lizard in North Texas.</i>
2016–2018	Tricia Neptune, M.S.	Biology	<i>Metabolic Physiology of <u>Anolis oculatus</u> in Dominica.</i>
2016–2018	Jeanel Georges, M.S.	Biology	<i>Comparative Thermal Physiology of <u>Anolis oculatus</u> and <u>Anolis cristatellus</u> in Dominica.</i>
2014–2016	Marcus Thibodeau, M.S.	Biology	<i>The Effect of Northern Bobwhite Quail (<u>Colinus virginianus</u>) Management on Horned Lizards</i>
2014–2016	Christopher Buttermore, M.S.	Biology	<i>Comparison of General Health Indicators Between Captive and Wild <u>Crotalus atrox</u></i>
2014–2016	William Krogman, M.S.	Biology	<i>Adaptive advantage of an ontogenetic color shift in <u>Plestiodon</u></i>
2014–2015	Jaydeep Kolape, M.S.	Biology	<i>Digestive Physiology and Gut Morphology of the Ground Skink, <u>Scincella lateralis</u></i>

Graduate Committee Member

2023–present	Ben Berggren	Ph.D. Student (University of North Texas)
2022–present	Gabriella Vaughn	M.S. Student (TAMUSA)
2022–present	Ariel Robles	M.S. Student (TAMUSA)
2019–present	Christian Mitchell	M.S. Candidate (MWSU)
2018–2022	Paul Rollins, M.S.	Biology (MWSU)
2017–2022	Sara Wilmsen, Ph.D.	Biology (University of North Texas)
2018–2022	Andrew Skinner, M.S.	Biology (MWSU)
2020–2021	Timothy Torres, M.S.	Biology (MWSU)
2017–2019	Stephen Mirkin, M.S.	Biology (Texas Christian University)

2016–2018	Rachel Alenius, M.S.	Biology (Texas Christian University)
2015–2017	Erika Mitchell, M.S.	Biology (MWSU)
2014–2017	Khyati Chauhan, M.S.	Biology (MWSU)
2014–2016	Matthew Fox, M.S.	Biology (MWSU)
2015–2016	Gisela Knightstep, M.S.	Biology (MWSU)
2015–2016	Sarah McBride, M.S.	Biology (MWSU)
2014–2016	William Stewart, M.S.	Biology (MWSU)
2011–2012	Christopher Brown, M.S.	Chemical and Environmental Sci (McNeese State)
2011–2012	Jonathan Smith, M.S.	Chemical and Environmental Sci (McNeese State)

UNDERGRADUATE MENTORSHIP

Over 40 undergraduate students have spent significant time performing research in my laboratory. The majority have presented at national or international meetings and the rest have presented at local research events. I have published with undergraduate co-authors (see above) and currently have manuscripts in preparation with others. Undergraduate Research is a major component of the Watson Laboratory's vision and mission.

Service – University Committees

Texas A&M University–San Antonio

2023–Present	Faculty Senator – Faculty Senate President (2024-Present)
2021–Present	IACUC – Chair (2022-Present), Vice Chair (2021-22)
2023–Present	Graduate Council – Chair
2023–2025	Post-Tenure Review Policy Committee
2023–2024	College Tenure and Promotion Committee
2023–2024, 2025	Biology Program Coordinator
2023–2024	Assistant Professor in Biology Search Committee
2023	Administrative Assistant Search Committee
2021–Present	Department Tenure and Promotion Committee
2022–Present	Faculty Evaluation Committee – Member (2022), Chair (2023)
2022–2023	Biology Program Review Committee
2022–2024	College of Arts and Sciences Strategic Planning Committee
2022–2023	Proyecto Éxito Steering Committee (DOE Funding for Graduate Studies)
2022–2023	Biology Graduate Program – Program Coordinator Mentor (2022)
2021–2022	Institutional Biosafety Committee
2021	Committee to Establish Pre-Professional Degree Concentration – Chair

Midwestern State University

2019–2020	University Taskforce on Faculty Workload – Committee Chair
2018–2021	Biology Graduate Admissions Committee
2016–2021	Dalquest Desert Research Station Advisory Committee
2014–2020	Institutional Animal Care and Use Committee
2018, 2021	Lecturer in Biology Search Committee
2016	College of Science and Mathematics Tenure Review Committee
2015–2019	Faculty Senate
2015–2018	Provost's Task Force for Advancing the Liberal Arts
2015–2016	First Year Experience Task Force

McNeese State University

2012–2013	Coordinator of Undergraduate Research: MSU LS–LAMP
2012–2013	Health Professions Committee
2012–2013	Graduate Faculty

2012–2013	SWAN 2013 Planning Committee – Chair
2011–2013	Tuten Park Biological Inventory Committee – Chair
2011–2013	Human Anatomy and Physiology Committee
2011–2012	Retention Committee

The University of Texas at Arlington

2008–2011	Teacher Education Council – Biology Representative
2009–2011	Biology Teacher Certification Advisor

SERVICE TO THE PROFESSION

2022–Present	<i>Amphibia–Reptilia</i> – Associate Editor
2012–Present	<i>The Southwestern Naturalist</i> – Associate Editor : Herpetology
2015, 17–20, 2023	Society for Integrative and Comparative Biol Meeting (SICB) – Session Chair
2024	SICB – Student Award Judge
2014–2016	Evolution – Session Chair
2014	Integrative Biology Workshop – 2014 Meeting Coordinator
2012–2013	Texas Herpetological Society – 2012–2013 President , 2013 Meeting Coord.
2012–2013	Southwestern Assn. of Naturalists – Local Rep. 2013 Meeting Coordinator
2012	1 st Joint Congress on Evolutionary Biology – Session Chair

SERVICE TO THE COMMUNITY

2024	Alamo Regional Science Fair – Judge
2023	Food Bank of San Antonio: Wild Game Meat Processing
2023	Regeneron International Science and Engineering Fair – Judge
2019, 2020, 2024	Texas Science and Engineering Fair – Judge, Division Captain
2012–2013	Friends of Tuten Park Board of Directors – Charter President
2012	Louisiana Academy of Science – Poster Competition Judge
2010–2013, 15–20	Dallas Area Regional Science Fair – Judge, Grand Prize Judge

MANUSCRIPT REVIEWER:

<i>Amphibia-Reptilia</i> (+AE)	<i>Herpetol. Conserv. & Biol.</i>	<i>Journal of Zoology</i>
<i>African Journal of Herpetology</i>	<i>Herpetological Journal</i>	<i>Journal of Experimental Zoology</i>
<i>Biological Journal of the</i>	<i>Herpetological Review</i>	<i>Journal of Natural History</i>
<i>Linnean Society</i>	<i>Herpetologica</i>	<i>Oecologica</i>
<i>Comparative Biochemistry and</i>	<i>Journal of Comparative</i>	<i>PLoS ONE</i>
<i>Physiology</i>	<i>Physiology B</i>	<i>Scientific Research and Essays</i>
<i>Current Zoology</i>	<i>Journal of Herpetology</i>	<i>Southwestern Naturalist</i> (+AE)
<i>Global Ecology and Biogeography</i>	<i>Journal of Thermal Biology</i>	<i>Zoology</i>

PROFESSIONAL AFFILIATIONS AND ORGANIZATIONS

American Association for the Advancement of Science	Member
American Society of Naturalists	Member
Horned Lizard Conservation Society	Member
International Biogeography Society	Member
Phi Sigma Society	Member (Chapter President , 2007)
Society for the Study of Evolution	Member
Society for Integrative and Comp Biology	Member
Southwestern Association of Naturalists	Member (Meeting Coordinator , 2013)
Texas Herpetological Society	Member (President , 2012/13)

PROFESSIONAL TRAINING AND WORKSHOPS

Texas A&M University – San Antonio Institutional Animal Care and Use Committee Training

2022 Conducting Investigations

2021–2023 Annual Training, Attendee and Instructor

2021 IACUC Chair Training

University of Washington

2015 Introduction to R

McNeese State University Faculty Development Workshops

2012 Incorporating Critical, Creative, and Systematic Thinking in Classroom Teaching and Evaluation

Grant Angstrom Partners / MSU Office of Research Services

2012 Strategic Grant Development, Certificate

Texas Science Faculty Collaborative for Team-Based Learning (TBL)

2011 Strategies for Teaching Undergraduate Science Classes with TBL, Marble Falls
TBL Content Writing Retreat, Galveston

American Zoo and Aquarium Association Professional Training Program, Wheeling, WV

2002 Managing for Success: Career Development, Certificate

2003 Managing for Success: Organizational Development, Certificate

2004 Population Management I, Certificate

PROFESSIONAL MEETING ORGANIZATION

2014 Organizer / Host: *Integrative Biology Workshop V*.
Midwestern State University (40 attendees)

2013 Organizer / Society President: *Texas Herpetological Society Fall Symposium*
Midwestern State University (27 attendees)

Organizer / Society President: *Texas Herpetological Society Spring Field Meet*
Caddo Wildlife Management Area (30 attendees)

Host / Committee Chair: *Southwestern Association of Naturalists 60th Annual Meeting*
McNeese State University (400+ attendees)

Current to 07/10/2025