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

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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

2021-present	Associate Professor of Biology (tenured)	Texas A&M University - San Antonio
2016-2021	Associate Professor of Biology (tenured)	Midwestern State Univ., Wichita Falls TX
2013-2016	Assistant Professor of Biology	Midwestern State Univ., Wichita Falls TX
2011-2013	Assistant Professor of Biology	McNeese State Univ., Lake Charles LA
2008-2011	Lecturer / Laboratory Coordinator	The University of Texas at Arlington

Adjunct/Part-Time

2010-2011	Instructor	Texas A&M Commerce, Commerce TX
2008	Instructor	The Univ. of North Texas, Denton TX
2006-2008	Graduate Teaching Assistant	The Univ. of Texas at Arlington
2004-2005	Lecturer	Richland College, Dallas TX

PROFESSIONAL POSITIONS

2003-2005	Reptile/Amphibian Supervisor	The Dallas Zoo, Dallas TX
2001-2003	Reptile/Amphibian Keeper	The Dallas Zoo, Dallas TX
1998-2001	Reptile/Amphibian Keeper	The Ellen Trout Zoo, Lufkin TX

HONORS AND AWARDS

2014-15, 16-17, 18-19	Biology Professor of the Year	MWSU
2014-2015	Faculty Member of the Year	MWSU Student Government Assn.
2012, 2013	Endowed Professor in Science	McNeese State University

FUNDING:		
EXTRAMURA	AL:	
2021	Thermal Physiology of Central Texas Lizard Communities, PI, Ian Rockel as I	Primary Author
	Texas Ecolabs Funding	\$2,800.00
2017	· · · · · · · · · · · · · · · · · · ·	into the Xeric
	Ecosystem Research Center (XERC), Co-PI and Primary Author	
	NSF Collections in Support of Biological Research (funded)	\$472,804.00
INTRAMURA		_
2019	•	_
	MWSU Faculty Research Grant	\$7,300.00
2017	Completion of research on chitinase production by <u>Scincella lateralis</u> during	
2016	MWSU COSM Faculty Research Award	\$875.00
2016		•
2015	MWSU Faculty Research Grant	\$6,702.00
2015		OF 404 00
2014	MWSU Faculty Research Grant	\$7,491.00
2014	00 0 1 0 0 1 0 0 1 0 1 1 1 1 1 1 1 1 1	
2014	MWSU Faculty Research Grant	\$7,474.00
2014		
2012	MWSU COSM Faculty Research Award	\$2,270.00
2013		
	Lizards: A Novel Application for New Technology MWSU Faculty Research Grant	\$4,966.73
2013	Digestive Physiology of Scincella lateralis and Reproductive Physiology of Plant	,
2013	obsoletus: Field Data Collection and Laboratory Trials	<u>estivuvn</u>
	MWSU COSM Faculty Research Award	\$1,310.00
2012	•	ψ1,510.00
2012	Shearman Research Initiative Fund Grant	\$3,500.00
2012		
2012	Shearman Research Initiative Fund Grant.	\$3,300.00
	2012 Enhancing pre-med recruitment and recognition of McNeese State Un	,
	undergraduate involvement in an international academic conference	
	MSU Alumni Association Endowment Award	\$2,000.00
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SCIENTIFIC PUBLICATIONS

PUBLISHED/IN PRESS

Richards, H. & C.M. Watson. (In Press) Evidence of alternative prey selection by the ant specialist, Phrynosoma cornutum. The Southwestern Naturalist

Total:

\$519,992.73

- Esquivel, C.* & C.M. Watson. (In Press) Variation in Energy and moisture content of milkweed (Asclepias) foliage across species. The Southwestern Naturalist
- 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. Watson, K. Wuthrich, & M. Logan, (2023) 3D printed models are an accurate, cost-effective, and reproducible tool for quantifying terrestrial thermal environments. *Journal of Thermal Biology*. 119.
- Gripshover, N. D., Hennessey, P., McBrayer, L. D., Meik, J. M., **Watson, C. M.**, & Cox, C. L. (2023). When food fights back: skull morphology and feeding behavior of centipede-eating snakes. *Integrative And Comparative Biology*.

- **Watson, C.M.** & C. Cox. 2021. Elevation, oxygen, and the origins of viviparity. *Journal of Experimental Zoology-B*. 336. 457-469.
- Heninger, R.*, C.M. Watson, & C. Cox. 2020. Relative fitness of decoy coloration is mediated by habitat type. *Zoology*. 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. Cox. 2019. Evolutionary and ecological forces underlying ontogenetic loss of decoy coloration. *Biological Journal of the Linnaean 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*
- **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 (12), 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(5) 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(1) 75-82.
- **Watson, C.M.**, C. Roelke, P. Pasichnyk*, & C. Cox. 2012. The fitness consequences of the autotomous blue tail in lizards: An empirical test of predator response using clay models. *Zoology* 115(5) 339-344
- **Watson, C.M.** and M. L. Nicholson. 2011 (Published 2014). The recovery of the macroarthropod community within the leaf-litter of an East Texas mixed hardwood-pine habitat following a prescribed burn. *The Texas Journal of Science* 64(1)
- **Watson, C.M**. 2009. Selection of available post-fire substrate by *Scincella lateralis* Say (Ground Skink). *The Texas Journal of Science* 61(3) 219-224.

*Undergraduate Researcher

SHORT COMMUNICATIONS

- 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 (2) p 292.
- Arzate-Garay, L., J.R. Flores-Santin, G.P. Hernandez-Lopez, & C.M. Watson. 2022. *Barisia imbricata*, **Arboreal Habitat Use**. *Herpetological Review* 53(2). p 320.
- Suárez-Rodríguez, O., G. Suárez-Varón, M. Marín-Vera, & C.M. Watson. 2020. Tail bifurcation in *Plestiodon copei*. *Revista Latinoamericana de Herpetologia* 3(2): 146-149.
- Watson, C.M., G. Estep, N. Barrier, & I.H. Watson. 2018. *Pantherophis obsoletus*, Vulnerability During Predation. *Herpetological Review*. 49(1). p 137.
- Thibodeau, M.C., R.C. Vogtsberger, & C.M. Watson. 2017. *Phrynosoma cornutum*, Diet. *Herpetological Review*. 48(2). p. 440.
- Merchant, M., M.H. Shirley & C.M. Watson. 2016. *Paleosuchus spp.* and *Osteolaemus spp.* Defense Mechanisms. *Herpetological Review* 47(4). 660-663

- Fox, M.R.*, R.W.Stewart & C.M Watson. 2014. *Plestiodon tetragrammus breviliniatus*. Geographic Distribution. *Herpetological Review*. 45(3)
- Watson, C.M. 2007. *Thamnophis proximus*: Foraging Biology. *Herpetological Review*. 38(3). p. 346
- Watson, C.M. and D. R. Formanowicz. 2007. *Plestiodon fasciatus*: Prey. *Herpetological Review*. 38(1). p. 82.
- **Watson, C.M.** and J. C. Watson. 2005. *Eumeces fasciatus*: Hatchlings. *Herpetological Review*. 36(3). p. 318.
- Watson, C.M. and M. S. Vaughan. 2004. *Liophis typhlus*: Coloration. *Herpetological Review*. 35(2). p. 178.

MAGAZINE ARTICLES

- Watson, C.M. **2007**. The Five-Lined Skinks: "Scorpion Lizards of the Southeast" *Reptiles*. October. pp. 59-65.
- Watson, C.M. **2004**. **Setup and Maintenance of a Successful Herp Quarantine**. *Reptiles USA*. Annual Issue. pp. 108-116.

INVITED PRESENTATIONS:

Tails of Deception: A Decade of Research Uncovering the Adaptive Advantage of Decoy Coloration in Lizards – Biology Department Seminar, Trinity University, San Antonio, TX, March 2023

Living to tell the tail....the adaptive advantage of anti-predation coloration in lizards.

- Ecol., Evol., and Conservation Biol. Colloquium Series, University of Nevada – Reno, April 2022

Decoy Coloration in Lizards: A Tail of Deception

- Department of Biology Seminar. Texas State University, San Marcos, TX. February 2022

Science is a Team Sport: Darwin's Indelible Stamp on Collaborative Research in my Laboratory

- Darwin Day Keynote. Cameron University, Lawton, OK. February 2019

The Physiology of Fitness: Trade-offs in the Evolution of Complex Traits.

- The Universidad Autónoma del Estado de México. May 2017

Out of thin air...Temperature, Hypoxia, and the Evolution of Viviparity in Lizards.

- Georgia Southern Department of Biology, September 2016
- University of North Texas Department of Biology, October 2016

Managing Game Species to Maximize Nongame Species Conservation.

- Texas Horned Lizard Conservation Coalition Meeting. Mason, TX. February 2016

Insights into the Evolution of Metabolic, Digestive, and Reproductive Phenotypes of Reptiles.

- Howard Payne University Department of Biology, February 2015

A tail's tale: The functional significance and evolution of brightly colored tails in lizards.

- The Dallas-Fort Worth Herpetological Society, October 2014

Natural History and Ecology of the Five-Lined Skinks.

- The Dallas-Fort Worth Herpetological Society. March 2007

CONFERENCE PRESENTATIONS:

The ecology and evolution of decoys, a paradoxical antipredator strategy.

- Society for Integrative and Comparative Biology. Seattle, WA. Jan. 2024.

Promoting a Standard Methodology for Physiological Phenotyping of Squamate Reptiles.

- Integrative Biology Workshop VII. Toluca, MX. October 2023.

Sex-specific interactions among signal expression, energetics, and parasitism in canyon lizards.

- Society for Integrative and Comparative Biology. Austin, TX. Jan. 2023.

Temperature, Oxygen, and the Origins of Viviparity

- Society for Integrative and Comparative Biology. Virtual Meeting Jan. 2021.

Comparative Ecology and Physiology of Anoles on Dominica

- Society for Integrative and Comparative Biology. Austin, TX Jan. 2020.

The adaptive significance of an ontogenetic shift in coloration among skinks

- Society for Integrative and Comparative Biology. Tampa, FL Jan. 2019.

Variation and evolutionary dynamics of squamate metabolism

- Society for Integrative and Comparative Biology. San Francisco, CA Jan. 2018.

Optimal Feeding Frequency and its Physiological "Brackets"

- Society for Integrative and Comparative Biology. New Orleans, LA. Jan. 2017.

Out of thin air...Temperature, Hypoxia, and the Evolution of Viviparity in Lizards.

- Integrative Biology Workshop VI. Toluca, MX. September 2016

Optimal feeding frequency and the physiological mechanisms underlying its evolution.

- Evolution 2016, Austin TX. June 2016

A Lizard's Tail in Three Acts: Physiology, Reproduction, and Predator Avoidance.

- Midwestern State University Faculty Forum. Wichita Falls, TX. March 2015.

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. Jan. 2015.
- 4th Annual Joint Vertebrate Eco-Physiology Workshop, Malinalco, Mexico. June 2013

Optimal foraging frequency: a physiological component of optimal foraging theory.

- Integrative Biology Workshop V. Wichita Falls, TX. September 2014

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. June 2014

Notes on the remarkable physiology of the Ground Skink, Scincella lateralis.

- Texas Herpetological Society Fall Symposium. Wichita Falls, TX. October 2013

Avian Predators and the Fitness Benefits of the Autotomous Blue Tail in Lizards.

- 1st Joint Congress on Evolutionary Biology. Ottawa, Ontario, Canada. **July 2012**.

Avian Predators and the convergent evolution of lizard phenotypes.

- Louisiana Academy of Sciences 86th Annual Meeting. LSU-Alexandria. **March 2012**.

A Geographic and climatic assessment of reproductive mode in lizards. (with R. Makowsky)

- Evolution 2011. Norman OK. June 2011

Ecological Physiology and Biogeography: incorporating spatial physiological measures.

- 3rd Annual Joint Vertebrate Eco-Physiology Workshop, Denton TX. **May 2011**

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. **February 2010**.

Combining Field Data with Laboratory Trials to Explain Differences in the Thermal Niche of Three Species of <u>Plestiodon</u>.

- 1st Annual Joint Vertebrate Eco-Physiology Workshop, Toluca, Mexico. **September 2008**.

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, Quebec, Canada, **July 2008**. *Comparative thermal biology of three morphologically similar syntopic lizards of the genus Plestiodon*. (with L. Gough)
- Evolution 2008. Minneapolis, MN, **June 2008**

Recovery of leaf litter macroinvertebrate fauna following prescribed burning (with M.L. Nicholson)

- Southeastern Ecology and Evolution Conference. Tuscaloosa, AL. March 2006.

Aren't we all enthusiasts? Finding common ground for cooperation across herpetological borders.

- Texas Herpetological Society Fall Symposium, Austin, TX, November 2005

The effects of prescribed burning on ground skink (<u>Scincella lateralis</u>) populations in a mixed hardwood-pine habitat in East Texas.

- 52nd Annual Meeting of the Southwestern Association of Naturalists, Huntsville, TX, April 2005

PANEL PRESENTATIONS:

Academic Career Panel (with Dr. Erica Diaz-Almeyda).

(Moderator: Shannon Collins) University of North Texas. Virtual. April 2022

What fueled me to be first? Stories from MSU's first-generation faculty and administrators.

(Moderator: M. Brown-Marsden) MSU Texas Faculty Forum. Wichita Falls TX. September 2019

From Campus to Community: (Re)valuing the Liberal Arts and Sciences in the 21st Century. (Moderator: T. Giles) Midwestern State University Faculty Forum. Wichita Falls TX. September 2015

SERVED AS REVIEWER:

Amphibia-Reptilia Herpetol. Conserv. & Biol. Journal of Zoology

African Journal of Herpetology Herpetological Journal Journal of Experimental Zoology

Biological Journal of the Herpetological Review Journal of Natural History

Linnean Society Herpetologica Oecologica Comparative Biochemistry and Journal of Comparative PLoS ONE

Physiology Physiology B Scientific Research and Essays

Current Zoology Journal of Herpetology Southwestern Naturalist

Global Ecology and Biogeography Journal of Thermal Biology Zoology

PROFESSIONAL AFFILIATIONS AND ORGANIZATIONS

American Association for the Advancement of Science
American Society of Naturalists

Member
Horned Lizard Conservation Society

International Biogeography Society

Member

Phi Sigma Society Member, 2007 Chapter President

Society for the Study of Evolution Member Society for Integrative and Comp Biology Member

Southwestern Association of Naturalists Member, Coordinator SWAN 2013

Texas Herpetological Society Member, 2012/13 President

Alliance for Inclusion, Diversity, and Equity @MSU Founding Member

PROFESSIONAL TRAINING AND WORKSHOPS

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

2022 Conducting Investigations

2021-23 Annual Training, Attendee and Instructor

2021 Chair Training

20th Summer Institute in Statistical Genetics, University of Washington, Seattle, WA

2015 Introduction to R

McNeese State University Faculty Development Workshops

2012 Incorporating Critical, Creative, and Systematic Thinking in Classroom Teaching and Evaluation, Instructor: Darrel J. Kesler Ph.D.

Grant Angstrom Partners / MSU Office of Research Services Strategic Grant Development, Certificate Texas Science Faculty Collaborative for Team-Based Learning (TBL) Strategies for Teaching Undergraduate Science Classes with TBL, Marble Falls TX 2011 TBL Content Writing Retreat, Galveston TX 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 SERVICE Texas A&M University - San Antonio Biology Program Coordinator 2023-Present Institutional Animal Care and Use Committee Chair 2022-Present 2023-Present Graduate Council Chair 2023-Present **Faculty Senator** Post-Tenure Review Policy Committee 2023-Present College Tenure and Promotion Committee 2023-Present 2023-2024 Assistant Professor in Biology Search Committee Administrative Assistant Search Committee 2023 Department Tenure and Promotion Committee 2021-Present 2022-Present Faculty Evaluation Committee – Member (2022), Chair (2023) 2022-2023 Biology Program Review Committee College of Arts and Sciences Strategic Planning Committee 2022-Present Provecto Éxito Steering Committee (DOE Funding for Graduate Studies) 2022-Present Biology Graduate Program – Program Coordinator Mentor (2022) 2022-2023 Institutional Animal Care and Use Committee - Vice Chair 2021-2022 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 **Biology Graduate Admissions Committee** 2018-2021 Dalquest Desert Research Station Advisory Committee 2016-2021 2014-2020 Institutional Animal Care and Use Committee Lecturer in Biology Search Committee 2018, 2021 College of Science and Mathematics Tenure Review Committee 2016 2015-2019 Faculty Senate Provost's Task Force for Advancing the Liberal Arts 2015-2018 First Year Experience Task Force 2015-2016

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
2011-13	Human Anatomy and Physiology Committee
2011-12	Retention Committee

The University of Texas at Arlington

2008-11	Teacher Education Council: Biology Representative
2009-11	Biology Teacher Certification Advisor

Profession: 2022-1	13 13, 15-20 Present Present 17-20, 2023	Regeneron Int Texas Science Friends of Tut Louisiana Aca Dallas Area R Amphibia-Rep The Southwest Society for Int SICB: Studen Evolution: Se Integrative Bid Texas Herpeto Southwestern	San Antonio: Wild Game Meat Processing gernational Science and Engineering Fair: Judge and Engineering Fair: Judge, Division Captain gen Park Board of Directors: Charter President ademy of Science: Poster Competition Judge gegional Science Fair: Judge, Grand Prize Judge gegional Science Fair: Judge, Grand Prize Judge gegional Science Fair: Herpetology gegrative and Comparative Biology Meeting (SICB): Session Chair at Award Judge gession Chair gession Chair geology Workshop: 2014 Meeting Coordinator gological Society: 2012-2013 President, 2013 Meeting Coord. Assn. of Naturalists: Local Rep. / 2013 Meeting Coordinator gession Chair geology: Session Chair gession Chair gession Chair gession Evolutionary Biology: Session Chair
PROFESSIONA	L MEETING ORG	ANIZATION	
2014 Organi	zer / Host		Integrative Biology Workshop V Midwestern State University (40 attendees)
2013 Organiz	zer / Society Pr	esident:	Texas Herpetological Society Fall Symposium
2013 Organiz	zer / Society Pr	esident [.]	Midwestern State University (27 attendees) Texas Herpetological Society Spring Field Meet
			Lake Caddo Wildlife Management Area (30 attendees)
2013 Host / C	2013 Host / Committee Chair : Southwestern Association of Naturalists 60 th Annual Meeting McNeese State University (400+ attendees)		
GRADUATE M			
Committee C	Chair		
2023-Present	Infinity Alver Metabolic Phy		M.S. Student in Biology zards: Standardization and Practice
2023-Present	Bridgett Batta Metabolic and	U	M.S. Student in Biology de-off in Mantis Reproduction
2023-Present	Victoria Gard Uterine histolo		M.S. Student in Biology logy of live bearing snakes under hypoxia and normoxia
2022-Present		racterization in	M.S. Student in Biology the digestive system of <u>Hemidactylus turcicus</u> .
2021-Present		iology of <u>Scelo</u> j	M.S. Candidate in Biology porus olivaceous and <u>Sceloporus variabilis</u> in South Texas
2019-2021	Doyinsola Ojo <i>Is male colora</i>		Biology nal of quality in <u>Sceloporus olivaceous</u> ?
2019-2021	Sadie Gent, M Ectoparasites		Biology nals in <u>Sceloporus merriami.</u>
2016-2021	Paige Canned Effects of nico	•	Biology tion on the physiology of the Tobacco Hornworm.
2018-2020	-	nville Taylor, I	M.S. Biology ulf Fritillary Butterfly Caterpillar

2018-2019	David Pérez Guerra, M.S. The Effects of Hypoxia on Embryon.	Biology ic Physiology and Egg Morphology in Lizards
2016-2018	Hannah Richards, M.S. Prey Diversity and Digestive Physic	Biology ology of the Texas Horned Lizard in North Texas.
2016-2018	Tricia Neptune, M.S. <i>Metabolic Physiology of <u>Anolis ocu</u></i>	Biology <u>latus</u> in Dominica.
2016-2018	Jeanel Georges, M.S. Comparative Thermal Physiology of	Biology f <u>Anolis oculatus</u> and <u>Anolis cristatellus</u> in Dominica.
2014-2016	Marcus Thibodeau, M.S. The Effect of Northern Bobwhite Qu	Biology wail (<u>Colinus virginianus</u>) Management on Horned Lizards
2014-2016	Christopher Buttermore, M.S. Comparison of General Health Indi	Biology cators Between Captive and Wild <u>Crotalus atrox</u>
2014-2016	William Krogman, M.S. Adaptive advantage of an ontogenet	Biology tic color shift in <u>Plestiodon</u>
2014-2015	Jaydeep Kolape, M.S.	Biology

Committee Member

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-present	Paul Rollins	M.S. Candidate (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 Science (McNeese State)
2011-2012	Jonathan Smith, M.S.	Chemical and Environmental Science (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.

COURSES TAUGHT

Texas A&M-San Antonio

 $Animal\ Physiology + Lab**$

Ecology Seminar

Herpetology + Lab**

Invertebrate Zoology

Zoology Seminar

Midwestern State University

Human Anatomy and Physiology I & II

Ecology + Lab **

History of the Life Sciences (Graduate)

Life II (Freshman Biology) + Lab*

Special Topic-Physiological Ecology (Grad)

McNeese State University

Human Anatomy and Physiology + Lab† Comparative Anatomy of the Vertebrates

Texas A&M-Commerce

Biogeography and Biodiversity (Graduate)*

The University of Texas at Arlington

Cellular & Molecular Biology Structure & Function of Organisms

Biology of Texas**

Introduction to Biology Non-Majors

Biostatistics

Cellular & Molecular Biology Lab+

The University of North Texas

Comparative Vertebrate Anatomy Lab

Richland College

Introductory Biology + Lab

Population and Community Ecology

(Graduate)*

*Vertebrate Zoology + Lab***

General Biology II

Biostatistics (Graduate)*

Seminar in Biology (Capstone)

Principles of Biology II

Desert Ecology *

Field Zoology**

Introductory Biology Animal Physiology**

Geospatial Mapping (GIS)**

Structure & Function of Organisms Lab+

Introduction to Biology Lab+

Comparative Vertebrate Anatomy Lab

Plant Science Lab

Human Anatomy and Physiology I Lab

* Developed Course ** Revised Course †Coordinator

Current to 14 January 2024