

# CURRICULUM VITAE

LANI LYMAN-HENLEY

UPDATED: AUGUST 2017

## Academic Degrees:

<u>Degree</u>	<u>University</u>	<u>Date</u>
BA	University of California, Berkeley, CA	1987
MS	University of Tennessee, Knoxville, TN	1990
PhD	University of Tennessee, Knoxville, TN	1991

## Professional Experience:

### Academic Positions:

Assistant Professor (Professional Track), Texas A&M-Commerce, Department of Biology & Environmental Sciences: Sept. 2016 to present  
Assistant Professor (NTT)/ Animal Care Facility Director, Texas A&M-Commerce, Department of Biology & Environmental Sciences: January 2014 to Sept. 2016.  
Lecturer/Animal Care Facility Director, Texas A&M-Commerce, Department of Biology & Environmental Sciences: August 2009 to Jan. 2014.  
Adjunct Instructor or Ad Interim, Texas A&M-Commerce, Department of Biology & Environmental Sciences: January 2004 to Aug. 2009.  
Adjunct Instructor, Mississippi State University, Department of Biological Sciences and Department of Psychology: January 2003 to June 2003.  
Assistant Professor, Mississippi University for Women, Division of Science and Mathematics: September 1992 to May 2001  
Adjunct Instructor, Mississippi State University Department of Biological Sciences, and/or Department of Psychology: August 1991 to August 1992.

### Non-Academic Professional Positions:

Concept Artist, Mutable Realms, Inc.: January 2002 to May 2002.

## Major Areas of Research Interest:

Learning and experience in animals. Specifically, the study of innate versus learned prey preferences, chemical sensations, perceptual abilities, and communication strategies. This has focused primarily on the ontogeny of foraging behavior and prey handling--as well as other areas of behavioral ecology--in reptiles.

## Teaching Experience:

### Undergraduate courses taught

Anatomy & Physiology (Biology, MSU)  
Animal Behavior (Biology, MSU; MUW; TAMUC BSC 310, 497)  
Animal Biology (Biology, MSU)  
Comparative Animal Behavior (Zoology/Psychology, UTK)  
Dinosaurs: Paleontology of the Mesozoic (Biology Honors Seminar, MUW)  
Experimental Psychology (Psychology, MSU)  
General Biology (MUW)  
General Botany (TAMUC BSC 1411)  
General Ecology (MUW)  
Herpetology (TAMUC BSC 497)  
Honors Biology (MUW)  
Human Anatomy (MUW)

Human Biology: Man & the Environment (TAMUC BSC106)  
Human Biology: Structure & Function (TAMUC BSC 107)  
Introduction to Psychological Statistics (Psychology, MSU)  
Introductory Biology I (TAMUC BSC 1406)  
Introductory Biology II (TAMUC BSC 1407)  
Invertebrate Zoology (MUW)  
Motivation and Emotion (Psychology, UTK)  
Plant Biology (TAMUC, BSC 101)  
Principles of Zoology (Biology, MSU)  
Quantitative Biology (TAMUC BSC 412)  
Research Methods (MUW)  
Senior Seminar (MUW)  
Special Topics in Undergraduate Research (MUW)  
Undergraduate Research (MUW, TAMUC BSC 489)  
Vertebrate Zoology (MUW)  
Zoology (TAMUC BSC 1413)

Graduate courses taught

Animal Behavior (Biology, MSU; TAMUC BSC 597)  
Herpetology (TAMUC BSC 597)  
Invertebrate Zoology (TAMUC BSC 533)  
Quantitative Biology (TAMUC BSC 504)  
Vertebrate Zoology (TAMUC BSC 534)

Online courses taught

Human Biology: Man & the Environment (TAMUC BSC106)  
Human Biology: Structure & Function (TAMUC BSC107)  
Animal Behavior (TAMUC BSC 497, 597)  
Herpetology (TAMUC BSC 497, 597)  
Invertebrate Zoology (TAMUC BSC 533)  
Vertebrate Zoology (TAMUC BSC 534)

**Advising:**

Thesis Committees served on

- Tulasi Sharma, *Habitat utilization, home range size, and population size of hispid cotton rat (Sigmodon hispidus) at the Cowleech Prairie Preserve in Northeastern Texas*, May 2006.
- Beverley Cochran, *Egg Size Variation in the American Barn Swallow*, Dec. 2008
- Yi-An Hsieh, *Rapid detection of Escherischia coli with different antibiotic susceptibility by flow cytometry*, Dec. 2008.
- Cleavon Covington, *Influenza in Avian and Mammalian Species (BSC 595)*, June 2009
- Yanli Liu, *Calcium response to glutamate in the presence of glutamate receptor antagonists in chicken neural stem cell (MS)*, June 2009
- Will Blackburn, *Medical Applications of Genetically Modified Food Plants: A Review (BSC 595)*, May 2009
- Jennifer Hudson, *Sympatric and allopatric speciation (BSC 595)*, May 2010.
- Jessica Montalvo, *The Abuse and Overuse of Antibiotics (BSC 595)*, May 2010
- Wade Gurley, *Reproductive Success, Competition & Nest Stratification in Swallows in NE Texas*, May 2010

- Anna Salinas, *A description of Bell's vireo (Vireo belli) habitat in northeast Texas*, May 2010.
- S. Dawn Morris-Terrell, *Skin Cancer* (BSC 595), December 2010
- Pam Bullard, *Impacts of introduced grasses on bird communities in Northeast Texas' blackland prairie ecoregion*, May 2011.
- Jonathan Lin, *Polygyny in birds* (BSC 595), May 2011.
- Ashley Wix, *A review of spirochetes with an emphasis on Leptospirosis* (BSC 595), May 2011.
- Joseph Lewis, *Population status and habitat selection of an inland alligator (Alligator mississippiensis) population at the Fort Worth nature center and refuge, Texas*, May 2012
- Tammy Reed, *Zebra and Quagga Mussels in North America* (BSC 595), May 2012
- Barry St. Clair, *Growing season versus dormant season fire as a control method for an invasive species, King Ranch Bluestem (Bothriochloa ischaemum)*, May 2012
- Bree Penninger, *Osteogenesis imperfect: Clinical characteristics, molecular mechanisms, and treatment options* (BSC 595), May 2012
- Cathy Harris, *Treatment options for indolent follicular lymphoma in the United States* (BSC 595), May 2013.
- Tiffany Hester, *Assessment of Methane Oxidizing Bacteria and their Applications* (BSC 595), May 2013
- Naveen Yegyan, *Effects of histone methylation and demethylation in breast cancer and novel epigenomic strategies to overcome breast cancer.* (BSC 595), Dec. 2013.
- Anne Davenport, *Loss of Maspardin Attenuates Growth of Mouse Neurons*, May 2014.
- Hannah Graham, *Effect of Hydration Hay<sup>tm</sup> on hydration status, water intake, packed cell volume, and blood glucose and cortisol concentrations of horses transported long distances during summer conditions.* May, 2014.
- Ellen Melson, *Reintroduction of Gray Wolves (Canis lupus) into the Greater Yellowstone Ecosystem.* (BSC 595), May 2014.
- Jessica Robissa, *Comparison of biodiversity of avifauna in urban landscapes in Spring.* May, 2014.
- Audrey Whaley, *The Evaluation of the Effects of Prescribed Fire, Tillage, and Herbicide Applications to Decrease Exotic Vegetation and to the Re-establish Native Blackland Tallgrass Prairie Vegetation on Tame Pasture* Dec. 2014
- Ashley Moses-Arms, *Mitochondrial Aberrations and Cancer*, (BSC 595), May 2015.
- Gwendolyn Taylor, *A Review of the DOC Model for Development of Site-Specific Criteria for Maintenance of Protective Copper Concentrations in San Francisco Bay, California, USA.* May 2015
- Lynda Folts, *Hydraulic fracturing: Deal or Damage?* (BSC 595). May 2015.
- Israel Chavarri, *Cultivation optimization of Methylosinus trichosporium OB3b for Methanobactin recovery: structural effects of dissolved oxygen and cell density on the molecular stability of methanobactin.* August 2015.
- Kara Gilliland, *The physiological effects of corticosterone in songbirds* (BSC 595), Aug. 2015.

- Ryan Granger, *Press-pulse in the Pleistocene* (BSC 595), Dec. 2015.
- Misty Schindler, *Invertebrate Cognition* (BSC 595). May 2016.
- Jennifer Harvey, *Biology and Conservation of the Leatherback Sea Turtle* (BSC 595). Dec. 2016.
- Arthur Thompson, *Potential Causes of Colony Collapse Disorder and the Role of CCD in Pollinator Declines* (BSC 595). Dec. 2016.
- Katelyn Miller, *Reproductive success of building-nesting barn swallows along the SH 24 corridor*. May 2017
- Amanda Turley (in progress)
- Ami Bhakta (in Progress)
- Euitaek Yang (in Progress)
- Misty Nixon (in progress)
- Trudi Cooke (in progress)
- Zackary Delisle (in progress)
- Kelsey Helgerson (in progress)
- Kalynn Hudman (in progress)
- Beverly Kopachena (in progress)

#### Thesis Committees Chaired

- Shannon Stephens, *Rabies: A review* (BSC 595), May 2010.
- Ryan Scauzillo, *Novel Foods as a Form of Environmental Enrichment for Mice (*Mus musculus*: Effects on Behavior and Physiology)*, May 2014.
- Jerrod Tynes, *A Comparison of the Arboreal Behavior of Old World (*Coelognathus*), New World (*Pantherophis* & *Scotophis*), and Hybrid (*Pantherophis* + *Scotophis*, *Pituophis* + *Scotophis*) Colubrid Snakes*, May 2014.
- Lauren Bailey, *Masparadin's Effect on BMP Signaling Molecules*, May 2014.
- Shannon Nisbett, *Greater Sage-Grouse: Conservation of a Landscape Species*, (BSC 595), Dec. 2014
- Joshua Maylee, *The Northern Spotted Owl: Conservation and recovery of a threatened species* (BSC 595), May 2015.
- Debra Davis, *Novel enhancements for bone replacement and repair* (BSC 595) Dec. 2015.
- Jessie Rains, *A practical health and parasitic review for pet owners of domestic felines (*Felis silvestris catus*)* (BSC 595), Dec. 2015.
- JaCee Copeland, *Global Warming*, (BSC 595), May 2017.

#### Honors Theses

- Jerrod Tynes, *Hide box selection and arboreal behavior of the north American rat snake (*Pantherophis*)*. August 2011 (Chaired)
- James Yznaga, *Personality and deck preference in Magic: the Gathering*, May 2012.
- Thomas Huff, *A study of the niche structure and habitat utilization of urban dwelling winter birds*, May 2013.
- Ashley Arms, *Molecular Mechanisms of G1P3 Mediated Mitochondrial Fusion*, May 2014.
- Ashleigh Tynes, *Habitat Stratification of Syntopic Nesting Barn Swallows (*Hirundo rustica*), Cave Swallows (*Petrochelidon fulva*), and Cliff Swallows (*Petrochelidon pyrrhonota*) in Northeast Texas*. May, 2014
- Simbarashe Mazambani, *Effects of Estrogenic SoyIsoflavones on*

- Menopause in VCD-Induced Menopause Mouse Model*. Dec. 2014.
- Miranda Lester, *Effects of the Absence of the Functional Maspardin Protein on Cognitive Ability in Mice*. May 2016 (Chaired)

McNair Scholar

- Eric Engelhardt (in progress)

**Other Collegiate Assignments**

Director Animal Care Facility (2009-2016)  
Chair Institutional Animal Care and Use Committee (2008-2015)  
Institutional Animal Care and Use Committee Member (2015-)  
Compliance Committee Chairs Group (2010-2015)  
Alcohol & Other Drugs Committee  
Search Committee member (Microbiologist position 2009-2010)  
Search Committee Chair (Wildlife biologist position 2010-2011)  
Search Committee Chair (Environmental sciences position 2012)  
Search Committee member (Environmental Sciences position 2013)  
Search Committee member (Physiologist position 2013)  
Search Committee member (Environmental Science: Toxicology 2013-14)  
Search Committee member (Environmental Science: Hydro/Geol 2013-14)  
Search Committee member (Wildlife biologist 2013-14)

**Grants**

*Personnel on Funded Grants*

RUI: Elucidation of Maspardin Function and its Role in the Endocytic Pathway (NSF-RUI: 1121151); with PI Larry Lemanski

Major Research Instrumentation: IM-Q-TOF Mass Spectrometer (funded); “Isolating Scent Chemicals Utilized by Snakes for Hunting Prey,” with Laurence Angel

*Applications (as PI)*

Spastic Paraplegia Foundation (SPF). Elucidation of Maspardin function- understanding SPG21: a possible future guidepost for complicated HSPs. Subm May 2015 (not funded)

National Organization for Rare Disorders (NORD), Letter of Intent submitted July 2015. (full application not requested)

NIH G20. Animal Care Facility Rodent Housing Improvements. Submitted Aug. 2015 (not funded)

Brain Research Foundation. Unravelling the Role of Maspardin in the Vertebrate Nervous System. Submitted January 2016 (not funded)

Grants for Laboratory Animal Science (GLAS). Quaternary Ammonium Compounds: A Cause for Concern in Rodent Colonies? Submitted February 2016 (not funded).

Lung Cancer Research Foundation (LCRF). Laboratory Rats as a Lung cancer detection tool in medically underserved areas. Submitted July 2016 (not funded).

**Professional and Academic Association Membership (current):**

American Association for Laboratory Animal Science (AALAS)  
Scientists Center for Animal Welfare (SCAW)  
Sigma Xi Scientific Research Society  
Society for the Study of Amphibians & Reptiles (SSAR)  
Southwestern Naturalists Association (SWAN)  
Southwestern Psychological Association (SWPA)  
Texas Branch American Association for Laboratory Animal Science (TXAALAS)  
Texas Herpetological Society (THS)  
American Society for Cell Biology (ASCB)

### **Professional Assignments, Activities, (non-teaching)**

I have done presentations at the Mesquite Workshops several times and regularly help with University Day/ Mane Event programs with my Department. I have served on some Departmental committees such as reviewing lab schedules for BSC 101/102 and search committee for lab coordinator.

Represented the Dept. at "Night Under the Stars," with Commerce High School, Nov. 16, 2009, 6:00-7:30 pm. STC Lobby.

I have been an active participant in BioPride, a program for incoming freshmen biology majors, launched in Fall, 2014.

### **Reviewing**

- Judge: 6<sup>th</sup> Annual Texas A&M System Pathways Symposium, November 7-8, 2008.
- Reviewer for Southwestern Psychological Association abstract submissions for 2009 meetings (April, San Antonio, TX).
- Reviewer for Journal of North American Herpetology, 2013
- Reviewer for Southwestern Psychological Association (SWPA) abstract submissions for 2015 meetings (April, Wichita, KS)

### **Professional Publications**

Lyman, Lani P. (1990). The effects of dietary and social experience on the development of behavior in Butler's garter snake, *Thamnophis butleri*. Master's thesis, University of Tennessee, Knoxville.

Lyman-Henley, Lani P. (1991). Effects of social and dietary experience on chemosensory response, aggregation behavior and kin recognition in the eastern garter snake, *Thamnophis sirtalis sirtalis*. Doctoral dissertation, University of Tennessee, Knoxville.

Lyman-Henley, Lani P. (1993). A water snake's year. Herpetological Review, 24, 39-40.

Lyman-Henley, Lani P. (1993). Observations on a captive-born litter of typhlonectid caecilians (Amphibia: Gymnophiona). Herpetological Review, 24, 146-147.

Lyman-Henley, Lani P. & Gordon M. Burghardt (1994). Opposites attract: Effects of social and dietary experience on snake aggregation behavior. Animal Behaviour, 47, 980-982.

Lyman-Henley, Lani P. & Gordon M. Burghardt. (1995). Diet, litter and sex effects on chemical prey preference, growth, and site selection in two sympatric species of *Thamnophis*. Herpetological Monographs, 9, 140-160.

- Lyman-Henley, Lani P. (1996). A review of *Snakes of the United States and Canada: Keeping them healthy in captivity: Volume 2 Western Area*. Herpetological Review, 27, 99-101.
- Lyman-Henley, Lani P. (1997). A review of *The garter snakes: Ecology and evolution*. Herpetological Review, 28, 108-109.
- Lyman-Henley, Lani P. & Tracy B. Henley. (2000). Some thoughts on the relationship between Behaviorism, Comparative Psychology, and Ethology. Anthrozoos, 13, 15-21.
- Bhakta A, Gavini K, Yang E, Lyman-Henley L, Parameshwaran K. (2017) Chronic traumatic stress impairs memory in mice: potential roles of acetylcholine, neuroinflammation and corticotropin releasing factor expression in the hippocampus. Behav Brain Res. (accepted for publication)

### **Presentations**

- Lyman, Lani P. & Gordon M. Burghardt (1988). Feeding experience and habitat choice in plains garter snakes (*Thamnophis radix*). Presented at the Combined Meetings of the Society for the Study of Amphibians and Reptiles, Herpetologists League, Early Life History Section, American Elasmobranch Society, and American Society of Ichthyologists and Herpetologists; Ann Arbor, MI, June.
- Lyman, Lani P. (1988). Effects of experience on feeding and habitat preferences in garter snakes. Presented at Ethology Colloquium, University of Tennessee, Knoxville, TN, September.
- Lyman, Lani P. & Gordon M. Burghardt (1989). The effects of experience on prey preference in garter snakes. Presented at Meetings of the Southeastern Psychological Association, Washington, D.C., March.
- Lyman, Lani P. & Gordon M. Burghardt (1989). Of food and feces: How garter snakes choose resting sites. Presented at Meetings of the Animal Behavior Society, Highland Heights, KY, June.
- Burghardt, Gordon M. & Lani P. Lyman (1990). Species differences among garter snakes in the role of feeding experience on prey chemical sensitivity. Presented at Meetings of the Animal Behavior Society, Binghamton, NY, June.
- Lyman-Henley, Lani P. (1991). Food, feces and familiarity: effects of experience in garter snakes. Presented at Ethology Colloquium, University of Tennessee, Knoxville, TN, March.
- Lyman-Henley, Lani P. & Gordon M. Burghardt (1991). Social behavior in snakes. Presented at Meetings of the Southeastern Psychological Association, New Orleans, LA, March.

- Yeager, Carey, Gordon Burghardt, & Lani Lyman (1991). Prey capture, ingestion and preferences for familiar versus novel food items in juvenile garter snakes (*Thamnophis*). Presented at Meetings of the Animal Behavior Society, Wilmington, NC, June.
- Buddington, Randal K. & Lani P. Lyman-Henley (1992). Effects of early experience on flavor preferences in young pigs. Presented at Meetings of the Southeastern Psychological Association, Knoxville, TN, March.
- Lyman-Henley, Lani P. & Gordon M. Burghardt (1992). A comparison of social aggregation behavior in two species of garter snake. Presented at Meetings of the Southeastern Psychological Association, Knoxville, TN, March.
- Burghardt, Gordon M. & Lani P. Lyman-Henley (1993). Comparative studies of prey choice diversity in natricine snakes. Presented at Meetings of the Society for the Study of Amphibians and Reptiles, Bloomington, IN, August.
- Lyman-Henley, Lani P. (1993). Aggressive and courtship behavior in Madagascan hissing cockroaches. Presented at Meetings of the Southeastern Psychological Association, Atlanta, GA, March.
- Baird, Brian N., Tracy B. Henley, & Lani P. Lyman-Henley (1994). Eminence and ethology. Presented at Meetings of the Southeastern Psychological Association, New Orleans, LA, March.
- Lyman-Henley, Lani P. & Brian N. Baird (1994). Ethology, comparative psychology and behaviorism. Presented at Meetings of the Southeastern Psychological Association, New Orleans, LA, March.
- Lyman-Henley, Lani P. & Jonathan H. Cole (1994). Effects of experience on prey preference of the Mexican garter snake, *Thamnophis melanogaster*. Presented at Joint Meetings of the Society for the Study of Amphibians & Reptiles and The Herpetologist's League, Athens, GA, August.
- Lyman-Henley, Lani & Tiffany Cook (1994). Effects of social experience, size and relatedness on competition for food in plains garter snakes, *Thamnophis radix*. Presented at Joint Meetings of the Society for the Study of Amphibians & Reptiles and The Herpetologist's League, Athens, GA, August.
- Lyman-Henley, Lani P. & Vicki Harness (1995). Feeding rates in isolated plains garter snakes, *Thamnophis radix*, as compared to competitive status. Presented at Meetings of the Society for the Study of Amphibians & Reptiles, Boone, NC, August.
- Lyman-Henley, Lani, Shannon James, Jonathan Cole & Tony Dunford (1995). Chemical and prey preferences in neonate and adult coast garter snakes, *Thamnophis elegans*. Presented at Meetings of the Society for the Study of

Amphibians & Reptiles, Boone, NC, August.

- Lyman-Henley, Lani P. & Shan C. Stookey (1995). Aggregation behavior in the Mexican aquatic garter snake, *Thamnophis melanogaster*. Presented at Meetings of the Society for the Study of Amphibians & Reptiles, Boone, NC, August.
- Forrester, Rebecca L. & Lani Lyman-Henley (1998). Chemical prey preferences in neonate wandering garter snakes, *Thamnophis elegans vagrans*. Presented at Mississippi Academy of Sciences, Biloxi, MS, February.
- Roberts, Dana S, Jonathan H. Cole & Lani P. Lyman-Henley (1998). Chemical prey preferences in neonate corn snakes, *Elaphe guttata guttata*. Presented at Mississippi Academy of Sciences, Biloxi, MS, February.
- Cole, Jonathan H. & Lani P. Lyman-Henley (1998). Chemosensory and prey preferences in neonate coast garter snakes. Presented at Meetings of the Southeastern Psychological Association, Mobile, AL, March.
- Forrester, Rebecca L. & Lani P. Lyman-Henley (1998). The effects of experience on prey preferences in the wandering garter snake. Presented at Meetings of the Southeastern Psychological Association, Mobile, AL, March.
- Lyman-Henley, Lani P. & Tracy B. Henley (1998). Animals as subjects: A consideration of comparative psychology, behaviorism, and ethology. Presented at Meetings of the Southeastern Psychological Association, Mobile, AL, March.
- Parker, Jennifer & Lani Lyman-Henley (1999). Influence of vision and prey medium on predation in Mexican black-bellied garter snakes, *Thamnophis melanogaster*. Presented at Mississippi Academy of Sciences, Tupelo, MS, February
- Roberts, Dana S. & Lani P. Lyman-Henley (1999). Species specific aquatic foraging behavior of garter snakes, genus *Thamnophis*. Presented at Mississippi Academy of Sciences, Tupelo, MS, February
- Lyman-Henley, Lani P. (2004). Chemical prey preferences of juvenile and adult wandering garter snakes. Presented at Meetings of the Southwestern Psychological Association, San Antonio, TX, April.
- Lyman-Henley, Lani P. & Tracy B. Henley (2004). Cognitive ethology: An oxymoron, something trendy, retro, or progressive? Presented at Meetings of the Southwestern Psychological Association, San Antonio, TX, April.
- Lyman-Henley, Lani (2009). A Comparison of Prey Preference Testing Across Different Species of Colubrid Snakes. Presented at Meetings of the Southwestern Psychological Association, San Antonio, TX, April.

- Lyman-Henley, Lani (2010). Snake research 101: How to give a snake a survey. Presented at the Mendel Society, Dept of Biological & Environmental Sciences, TAMU-C, March.
- Lyman-Henley, Lani (2011). Chemical prey preferences of young Trinket snakes (*Coelognathus helenus*). Presented at Meetings of the Southwestern Naturalists Association, Tyler, TX, April.
- Lyman-Henley, Lani (2011). Chemical prey preferences and defensive response of checkered garter snakes (*Thamnophis marcianus*). Presented at Meetings of the Southwestern Naturalists Association, Tyler, TX, April.
- Tynes, Jerrod & Lani Lyman-Henley (2011). Hide box selection and arboreal behavior of the north American rat snake (*Pantherophis*). Presented at Meetings of the Southwestern Naturalists Association, Tyler, TX, April.
- Tynes, J.G. & Lyman-Henley, L. (2011). Hide Box Selection and Arboreal Behavior of the North American Rat Snake (*Pantherophis*). Presented at the Texas Herpetological Society Conference. University of Texas at Austin. Austin, TX. October.
- Tynes, Jerrod & Lani Lyman-Henley (2011). Hide box selection and arboreal behavior of the north American rat snake (*Pantherophis*). Presented at Pathways Symposium, College Station, TX, November. -*Awarded graduate distinguished poster.*
- Lyman-Henley, Lani (2012). Snake research 102: Snakes- the new lab rat? Presented at the Mendel Society, Dept of Biological & Environmental Sciences, TAMU-C, February.
- Tynes, J.G. & Lyman-Henley, L. (2012). Hide Box Selection and Arboreal Behavior of the North American Rat Snake (*Pantherophis*). Texas Chapter of the Wildlife Society Meeting and Conference. Fort Worth, TX. February.
- Tynes, J.G. & Lyman-Henley, L. (2012). Hide Box Selection and Arboreal Behavior of the North American Rat Snake (*Pantherophis*). Texas A&M University Herpetology Society Meeting. Texas A&M University. College Station, Tx. February.
- Tynes, J.G. & Lyman-Henley, L. (2012). Hide Box Selection and Arboreal Behavior of the North American Rat Snake (*Pantherophis*). Texas A&M University-Commerce Graduate Assistant Research Symposium. Texas A&M University-Commerce, Commerce, Tx. April.
- Scauzillo, R. & Lyman-Henley, L (2012). The preference of female mice (*Mus musculus*) to odor cues from environmentally enriched and non-enriched males. Texas A&M

- University Pathways Symposium. Texas A&M University- Galveston, Galveston, Tx. November.
- Tynes, J.G. & Lyman-Henley, L. (2012). The Defensive Behavior and Responsiveness to Human Contact of Naive Hybrid Snakes (*Pantherophis* + *Scotophis*) and Corn Snakes (*Pantherophis guttatus*). Texas A&M University Pathways Symposium. Texas A&M University- Galveston, Galveston, Tx. November.
- Tynes, J.G. & Lyman-Henley, L. (2013). The Social and Aggregate Behavior of Hybrid Colubrids (*Scotophis* = *Pantherophis*) Repticon Reptile Expo, Louisiana State Fair Grounds, Shreveport, La. January.
- Tynes, J.G. & Lyman-Henley, L. (2013) The Social and Aggregate Behavior of Hybrid Colubrids (*Scotophis* = *Pantherophis*) Texas A&M University Herpetological Society. Texas A&M University, College Station, Tx. February.
- Tynes, J.G. & Lyman-Henley, L. (2013). Hide Box Selection and Arboreal Behavior of the North American Rat Snake (*Pantherophis*). Texas Academy of Sciences Symposium. Schriener University, Kerrville, Tx. February.
- Tynes, J.G. & Lyman-Henley, L. (2013). The Defensive Behavior and Responsiveness to Human Contact of Naive Hybrid Snakes (*Pantherophis* + *Scotophis*) and Corn Snakes (*Pantherophis guttatus*). Third Coast Reptile Expo, Elk Lodge, Katy, Tx. March.
- Hanna, Tawny L., L.E. Bailey, and L. Lyman-Henley (2013). Masparadin: Possible BMP Inhibitor? Undergraduate Poster Presentation at Texas A&M University – Commerce Annual Research Symposium, Commerce, TX. April.
- Lyman-Henley, L (2013). Chemical prey preference testing compared between different species of snakes. Presented at Meeting of the Southwestern Psychological Association, Fort Worth, TX, April.
- Scauzillo, R. & Lyman-Henley, L. (2013). Effect of novel food enrichment on Mouse (*Mus musculus*) development. Texas A&M University-Commerce Research Symposium, Commerce, Tx. April.
- Tynes, Jerrod & Lani Lyman-Henley (2013). The arboreal behavior of captive North American rat snakes (*Scotophis spp.*) Presented at Meeting of the Southwestern Psychological Association, Fort Worth, TX, April.
- Tynes, J.G. & Lyman-Henley, L. (2013). The Defensive Behavior and Responsiveness to Human Contact of Naive Hybrid Snakes (*Pantherophis* + *Scotophis*) and Corn Snakes (*Pantherophis guttatus*.) Texas A&M University-Commerce Research Symposium, Commerce, Tx. April. -Awarded Superior Graduate Oral Presentation for the College of Science, Engineering & Agriculture.

- Tynes, J.G. & Lyman-Henley, L. (2013). The Defensive Behavior and Responsiveness to Human Contact of Naive Hybrid Snakes (*Pantherophis* + *Scotophis*) and Corn Snakes (*Pantherophis guttatus*). Graduate Assistant Research Symposium, Texas A&M University-Commerce, Commerce, Tx. April.
- Tynes, J.G. & Lyman-Henley, L. (2013) The Social and Aggregate Behavior of Hybrid Colubrids (*Scotophis* = *Pantherophis*). Repticon Reptile Expo. Baton Rouge, LA. June.
- Tynes, J.G. & Lyman-Henley, L. (2013). The Social and Aggregate Behavior of Hybrid Colubrids (*Scotophis* = *Pantherophis*). International Herpetology Symposium. New Orleans, LA. August.
- Lyman-Henley, L. (2013). Snakes: Beauty & Science. Presented to the Honors Seminar, Honors College Symposium, TAMU-C, September.
- Scauzillo, R. & Lyman-Henley, L. (2013). Effect of novel food environmental enrichment on mouse (*Mus musculus*) pup development. Presentation at Texas A&M University Pathways Research Symposium, Kingsville, TX.- November.
- Tynes, J.G. & Lyman-Henley, L. (2013) The Social and Aggregate Behavior of Hybrid Colubrids (*Scotophis* = *Pantherophis*). Texas A&M University Pathways Symposium. Texas A&M University- Kingsville. Kingsville, TX. November.
- Bailey, L. E., T. L. Hanna, L. Lyman-Henley (2013). Masparidin's Effects on BMP Signaling. Graduate Poster Presentation at Texas A&M University Pathways Research Symposium, Kingsville, TX.- November. - *Placed 3<sup>rd</sup> of 176 entrants in master's poster presentation category.*
- Hanna, T. L., L.E. Bailey, and L. Lyman-Henley (2013). Masparidin: Possible Regulator of BMPRII. Undergraduate Poster Presentation at Texas A&M University Pathways Research Symposium, Kingsville, TX. November.
- Bailey, L. E., T.L. Hanna, and L. Lyman-Henley (2013). Masparidin Effects on BMP Signaling Molecules. Joint Graduate/Undergraduate Poster Presentation at the American Society for Cell Biology Convention, New Orleans, LA. December.
- Hanna, T. L., L.E. Bailey, and L. Lyman-Henley (2013). Masparidin: Possible Regulator of BMPRII. Joint Graduate/Undergraduate Poster Presentation at the American Society for Cell Biology Convention, New Orleans, LA. December.
- Hanna, T. L., L.E. Bailey, and L. Lyman-Henley (2013). Masparidin: Possible Regulator of BMPRII. Undergraduate Poster Competition at the American Society for Cell Biology Convention, New Orleans, LA. December.

- Lyman-Henley, L. and J. G. Tynes (2014). Snake Defensive Behavior and Effects of Handling. Presented at Meetings of the Southwestern Psychological Association, San Antonio, TX, April.
- Lyman-Henley, L. and J. G. Tynes (2014). Effects of Experience on Responses to Standard Testing Procedures in Colubrid Snakes. Symposium Presentation at the Joint Meetings of Ichthyologists & Herpetologists, Chattanooga, TN, August.
- Lyman-Henley, L. and J. G. Tynes (2014). Ontogenetic Color Change of Corn and Rat Snakes, their Intergrades and Hybrids. Poster presented at the Joint Meetings of Ichthyologists & Herpetologists, Chattanooga, TN, August.
- Bailey, L. E., and L. Lyman-Henley (2014). *Masparidin's Effects on BMP Signaling Molecules*. Graduate Poster Presentation at Texas A&M University's Society for Neuroscience poster session. College Station, Texas. January.
- Bailey, L. E., and L. Lyman-Henley (2014). *Masparidin's Effects on BMP Signaling Molecules*. Graduate Poster Presentation at Federation of North Texas Area Universities Graduate Research Symposium, Denton, TX. April.
- Bailey, Lauren E., L.P. Lyman-Henley, L.J. Dangott, and L. F. Lemanski (2014). Masparidin's Interactions with Signaling Proteins. Presented at the American Society for Cell Biology Convention, Philadelphia, PA. December.
- Lyman-Henley, L. and L. Bailey (2014). Mouse color genetics as an Undergraduate Laboratory exercise. Presented at the American Society for Cell Biology Convention, Philadelphia, PA. December.
- Bailey, L., L. Lyman-Henley, D. Sanchez, H. Fetters, & K. Gavini (2015). Mast Syndrome in a Knockout Mouse Model: Complicated or Not? Presented at meetings of the Southwestern Psychological Association, Wichita, KS, April.
- Lyman-Henley, L., E. Jones, & L. Bailey (2015) Does Differential Handling Effect Responsiveness in Standard Behavioral Testing of Colubrid Snakes? Presented at meetings of the Southwestern Psychological Association, Wichita, KS, April.
- Lyman-Henley, L., E. Jones, & L. Bailey (2015) Effects of Handling on Snakes of the North American Rat Snake Species Complex. Presented at meetings of the Southwestern Psychological Association, Wichita, KS, April.
- Delisle, Z., J. Delgado-Acevedo, L. Lyman-Henley & D. Ransom (2017). Cottonmouth and Diamond-backed water snake spatial ecology within constructed and natural wetlands. Presented at the Joint Meeting of Ichthyologists & Herpetologists, Austin, TX, July.

### **Professional Development: Attendance at Workshops, Presentations, Readings**

In years past, I frequently attended meetings of the Animal Behavior Society, the Society for the Study of Amphibians & Reptiles, the Herpetologists League, the Mississippi Academy of Sciences, the American Psychological Association, the Southeastern Psychological Association, as well as numerous invited seminars at Mississippi State University. Most recently I have been attending the Southwestern Psychological Association.

- IACUC training workshop (IACUC 101) sponsored by TBAALAS, OLAW, UTMB. Galveston, TX. April 14, 2008.
- TBAALAS (Texas Branch of the American Association of Laboratory Animal Sciences) sponsored webinar (online seminar) worth 1.0 CEU *Sanitation: the Heart of the Research Program*, Aug. 28, 2009.
- Charles River Webinar Series *Working with the Laboratory Rat: A complimentary six-part webinar series from Charles River*. Oct. 12 – Nov. 16, 2011.
- OLAW (Office of Laboratory Animal Welfare) Webinar *Wildlife in Research*, Mar. 20, 2014.