

CURRICULUM VITA

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Loren K. Ammerman

CURRENT POSITION:

Professor
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EDUCATION:

Ph. D. in Zoology, 1993, **The University of Texas at Austin**
Dissertation Title: Examination of the relationships between Microchiroptera and Megachiroptera based on mitochondrial and nuclear ribosomal DNA sequences.

B. S. in Wildlife and Fisheries Science, Summa Cum Laude, 1987, **Texas A & M University**, College Station, Texas.

Also attended Austin College (1983-85), University of Oklahoma Biological Station (1985), and North Harris County College (1982-83)

TEACHING EXPERIENCE:

Professor at Angelo State University: Cell Biology, Molecular Biology, Natural History of Bats, General Zoology, Principles of Biology, Cancer Biology, Advanced Genetics, Seminar in Biology (2012 to present)

Associate/Assistant Professor at Angelo State University: Cell Biology, Human Biology, Man and the Environment, Advanced Genetics, Molecular Biology, Natural History of Bats, Seminar in Biology, Graduate Seminar, Advanced Biology, General Zoology, Principles of Biosystematics (2001 to 2012)

Instructor for Chautauqua summer workshop "Bats of Big Bend National Park" (July 2006)

Lecturer at University of Texas at Arlington: Cell and Molecular Biology, Introductory Biology, Comparative Vertebrate Anatomy, Natural History of Bats, Mammalogy, Zoology, and Introductory Biology lab supervisor (1994-2001)

Adjunct Assistant Professor at Texas Wesleyan University: Costa Rican Tropical Biology program: Field Biology and Contemporary Biology (1994-2000)

Instructor at Texas Wesleyan University for: Cell Biology, Anatomy and Physiology, Comparative Vertebrate Anatomy, Mammalogy and Ornithology, Vertebrate Field Zoology, General Zoology, Introductory Biology (1992-1994)

Assistant Instructor and Teaching Assistant at University of Texas at Austin for: Comparative Anatomy, Cell and Molecular Biology, Genetics, General Biology Laboratory, Non-major Biology, Vertebrate Natural History (1987-1992)

PUBLICATIONS — BOOKS AND LAB MANUALS:

Ammerman, L. K., C. L. Hice, and D. J. Schmidly. 2012. *Bats of Texas*. Texas A&M Press, College Station.
Ammerman, L. K. 2001. *Introductory Biology Lab Manual*, Third edition. Burgess International Group, Inc., Edina, Minnesota. 128 pp. (First edition in 1996, Second edition 1997)
Ammerman, L. K., and P. T. Chippindale. 1998. *Laboratory Exercises in Cellular and Molecular Biology*. Pearson Custom Publishing, Boston, MA. 190 pp.

PUBLICATIONS — PEER-REVIEWED JOURNAL ARTICLES:

- Shaffer, A. A., R. C. Dowler, J. C. Perkins, A. W. Ferguson, M. M. McDonough, and L. K. Ammerman. 2018. Genetic variation in the eastern spotted skunk (*Spilogale putorius*) with emphasis on the plains spotted skunk (*S. p. interrupta*). *Journal of Mammalogy* XX:X-X.
- Demere, K. D., M. B. Meierhofer, M. L. Morrison, B. L. Pierce, J. M. Szewczak, J. W. Evans, and L. K. Ammerman. 2017. Noteworthy records for six species of bats from 13 Texas counties and the first voucher specimens from sites with *Pseudogymnoascus destructans*. *Occasional Papers, Museum of Texas Tech University* 351: 1-12.
- Ferguson, A. W., M. M. McDonough, G. I. Guerra, M. Rheude, J. W. Dragoo, L. K. Ammerman, and R. C. Dowler. 2017. Phylogeography of a widespread small carnivore, the western spotted skunk (*Spilogale gracilis*) reveals temporally variable signatures of isolation across western North America. *Ecology and Evolution* 2017:1-12. DOI: 10.1002/ece3.2931
- Ammerman, L. K., D. N. Lee, and R. S. Pfau. 2016. Patterns of genetic divergence among *Myotis californicus*, *M. ciliolabrum*, and *M. leibii* based on amplified fragment length polymorphism. *Acta Chiropterologica* 18(2): 337-347.
- Lindsey, L. L. and L. K. Ammerman. 2016. Patterns of genetic diversification in a widely distributed species of bat, *Molossus molossus*. *Occasional Papers, Museum of Texas Tech University* 339: 1-15.
- Adams, E. R. and L. K. Ammerman. 2015. A serpentine antenna configuration for passive integrated transponder tag readers used at bat roosts. *Southwestern Naturalist* 60(4): 393-397.
- Horsley, T. W. B., J. E. Bicknell, B. K. Lim, and L. K. Ammerman. 2015. Seed dispersal by frugivorous bats in Central Guyana and a description of previously unknown plant-animal interactions. *Acta Chiropterologica* 17(2): 331-336.
- Dolman, R. W. and L. K. Ammerman. 2015. Molecular systematics of *Nyctinomops* (Chiroptera: Molossidae). *Western North American Naturalist* 75 (1): 43-51.
- Brashear, W. A., L. K. Ammerman, and R. C. Dowler. 2015. Short-distance dispersal and lack of genetic structure in an urban striped skunk population. *Journal of Mammalogy* 96 (1): 72-80.
- Dixon, M. T., R. M. Rodriguez, and L. K. Ammerman. 2014. Comparison of two survey methods used for bats along the Lower Canyons of the Rio Grande and in Big Bend National Park. Pages 241-249 in *Proceedings of the Sixth Symposium on the Natural Resources of the Chihuahuan Desert* October 14-17, 2004 (C. A. Hoyt and J. Karges, eds). Chihuahuan Desert Research Institute, Fort Davis, Texas.
- Nalls, A. V., L. K. Ammerman, and R. C. Dowler. 2014. Genetic variation in the Davis Mountains cottontail (*Sylvilagus robustus*) from the Chisos Mountains based on mitochondrial DNA sequence. Pages 205-210 in *Proceedings of the Sixth Symposium on the Natural Resources of the Chihuahuan Desert* October 14-17, 2004 (C. A. Hoyt and J. Karges, eds). Chihuahuan Desert Research Institute, Fort Davis, Texas.
- Strickland, J. L., C. L. Parkinson, J. K. McCoy, and L. K. Ammerman. 2014. Phylogeography of *Agkistrodon piscivorus* with emphasis on the western limit of its range. *Copeia* 2014 (4): 639-649.
- Bradley, R. D., L. K. Ammerman, R. J. Baker, L. C. Bradley, J. A. Cook, R. C. Dowler, C. Jones, D. J. Schmidly, F. B. Stangl, Jr., R. A. Van Den Bussche, and B. Wursig. 2014. Revised checklist of North American Mammals North of Mexico, 2014. *Occasional Papers, Museum of Texas Tech University* 327: 1-27.
- Frerich, C. and L. K. Ammerman. 2014. Investigation of hAT and piggyBac transposable elements in mouse eared bats (Genus: *Myotis*). *BIOS* 85 (1): 67-72.
- Ammerman, L. K., W. A. Brashear, and S. N. Bartlett. 2013. Further evidence for the basal divergence of *Cheiromeles* (Chiroptera: Molossidae). *Acta Chiropterologica* 15(2): 307-312.
- Bartlett, S. N., M. M. McDonough, and L. K. Ammerman. 2013. Molecular systematics of bonneted bats (Molossidae: *Eumops*) based on mitochondrial and nuclear DNA sequences. *Journal of Mammalogy* 94: 867-880.
- Demere, K. D., A. M. Lewis, B. Mayes, R. J. Baker, and L. K. Ammerman. 2012. Noteworthy county records for 14 bat species based on specimens submitted to the Texas Department of State Health Services. *Occasional Papers, Museum of Texas Tech University* 315: 1-14.
- Ammerman, L. K., D. N. Lee, and T. M. Tipps. 2012. First molecular phylogenetic insights into the evolution of free-tailed bats in the subfamily Molossinae (Molossidae, Chiroptera). *Journal of Mammalogy* 93:12-28.
- Tipps, T. M., B. Mayes, and L. K. Ammerman. 2011 (2014). New county records for six species of bats (Vespertilionidae and Molossidae) in Texas. *Texas Journal of Science* 63(2):141-152.
- Nalls, A. V., L. K. Ammerman, and R. C. Dowler. 2012. Genetic variation in the Davis Mountains cottontail (*Sylvilagus robustus*) based on mitochondrial DNA sequences. *The Southwestern Naturalist* 57 (1): 1-7.
- McDonough, M. M., A. W. Ferguson, L. K. Ammerman, C. Granja-Vizcaino, S. F. Burneo, and R. J. Baker. 2011. Molecular verification of bat species collected in Ecuador: Results of a country-wide survey. *Occasional Papers, Museum of Texas Tech University* 301: 1-28.
- McDonough, M. M., B. K. Lim, A. W. Ferguson, C. M. Brown, S. F. Burneo, and L. K. Ammerman. 2010. Mammalia, Chiroptera, Emballonuridae, *Peropteryx leucoptera* Peters, 1867 and *Peropteryx*

- pallidoptera* Lim, Engstrom, Reid, Simmons, Voss and Fleck, 2010: Distributional range extensions in Ecuador. Checklist 6 (4): 639-643.
- Lee, D. N., R. S. Pfau, and L. K. Ammerman. 2010. Taxonomic status of the Davis Mountains cottontail, *Sylvilagus robustus*, revealed by amplified fragment length polymorphism. Journal of Mammalogy 91 (6): 1472-1483.
- Matthews, A. K., S. A. Neiswenter, and L. K. Ammerman. 2010. Trophic ecology of the free-tailed bats *Nyctinomops femorosaccus* and *Tadarida brasiliensis* (Chiroptera: Molossidae) from Big Bend National Park, Texas. The Southwestern Naturalist 55 (3): 340-346.
- Ammerman, L. K., M. M. McDonough, N. I. Hristov, and T. H. Kunz. 2009. Census of the endangered Mexican long-nosed bat (*Leptonycteris nivalis*) in Texas using thermal imaging. Endangered Species Research 8:87-92.
- Baker, R. J., M. M. McDonough, V. J. Swier, P. A. Larsen, J. P. Carrera, and L. K. Ammerman. 2009. New species of bonneted bat, genus *Eumops* (Chiroptera: Molossidae) from the lowlands of western Ecuador and Peru. Acta Chiropterologica 11:1-13.
- Ammerman, L. K., R. M. Rodriguez, R. C. Dowler, and M. M. McDonough. 2008. Bat diversity and activity: a comparison among Texas Army National Guard sites. Texas Tech University Occasional Papers 280:1-23.
- McDonough M. M., L. K. Ammerman, R. M. Timm, H. H. Genoways, P. A. Larsen, and R. J. Baker. 2008. Speciation within bonneted bats (Genus *Eumops*): the complexity of morphological, mitochondrial, and nuclear datasets in systematics. Journal of Mammalogy 89 (5):1306-1315.
- Weir, D., C. Jones, L. Ammerman, K. Dybdahl, and S. Tomlinson. 2007. Report of a strain of *Staphylococcus caprae* with the genes for enterotoxin A and enterotoxin-like toxin type P. Journal of Clinical Microbiology 45 (10): 3476-3477.
- Debelica, A. A. K. Matthews, and L. K. Ammerman. 2006. Dietary study of big free-tailed bats (*Nyctinomops macrotis*) in Big Bend National Park. Southwestern Naturalist 51: 414-418.
- Ammerman, L.K. 2006. High-tech bat counts: Tapping the promise of thermal imaging. BATS 25 (2): 10-12.
- Ammerman, L. K. 2005. Noteworthy records of eastern pipistrelle, *Perimyotis subflavus*, and silver-haired bat, *Lasiomyotis noctivagans*, (Chiroptera: Vespertilionidae) from the Chisos Mountains, Texas. Texas Journal of Science 57 (2): 202-207.
- Rodriguez, R. M. and L. K. Ammerman. 2004. Mitochondrial DNA divergence does not reflect morphological difference between *Myotis californicus* and *Myotis ciliolabrum*. Journal of Mammalogy 85:842-851.
- Castoe, T. A., P. T. Chippindale, J. A. Campbell, L. K. Ammerman, and C. L. Parkinson. 2003. Molecular systematics of the Middle American jumping pitvipers (genus *Atropoides*) and phylogeography of the *Atropoides nummifer* complex. Herpetologica 59: 420-431.
- Matthews, A.K. and L. K. Ammerman. 2003. Recapture of a banded pocketed free-tailed bat (*Nyctinomops femorosaccus*) in Big Bend National Park Texas. Bat Research News 44: 4.
- Ammerman, L. K., R. M. Rodriguez, J. L. Higginbotham, and A.K. Matthews. 2002. Bats from the lower canyons of the Rio Grande. Texas Journal of Science 54 (4):369-374.
- Higginbotham, J. L. and L. K. Ammerman. 2002. Chiropteran community structure and seasonal dynamics in Big Bend National Park. Special Publications, Museum of Texas Tech University, 44:1-44.
- Ritzi, C. M., L. K. Ammerman, M. T. Dixon, and J. V. Richerson. 2001. Bat ectoparasites from the Trans-Pecos region of Texas, including notes from Big Bend National Park. Journal of Medical Entomology 38 (3): 400-404.
- Harvey, M. B., D. G. Barker, L. K. Ammerman, and P. T. Chippindale. 2000. Evolutionary history and systematics of pythons of the *Morelia amethystina* complex (Serpentes: Boidae) with the description of three new species. Herpetological Monographs 14:139-185.
- Higginbotham, J. L., M. T. Dixon, and L. K. Ammerman. 2000. Yucca provides roost for *Lasiurus xanthinus* (Chiroptera: Vespertilionidae) in Texas. Southwestern Naturalist 45 (3): 338-340
- Higginbotham, J. L., L. K. Ammerman, and M. T. Dixon. 1999. First record of *Lasiurus xanthinus* (Chiroptera: Vespertilionidae) in Texas. Southwestern Naturalist 44(3): 343-347.
- Chippindale, P. T., L. K. Ammerman, and J. A. Campbell. 1998. Molecular approaches to phylogeny of *Abronia* (Anguillidae: Gerrhonotinae), with emphasis on relationships in subgenus *Auriculabronia*. Copeia 1998 (4): 883-892.
- McGown, L. S., M. T. Dixon, and L. K. Ammerman. 1994. Distribution note: *Syrrophus cystignathoides*. Herpetological Review 25: 32.
- Hillis, D. M., L. K. Ammerman, M. T. Dixon, and R. O. de Sá. 1993. Ribosomal DNA and the phylogeny of frogs. Herpetological Monographs 7: 118-131.
- Ammerman, L. K., and D. M. Hillis. 1992. A molecular test of bat relationships: Monophyly or diphyly? Systematic Biology 41 (2): 227-232.
- Hillis, D. M., M. T. Dixon and L. K. Ammerman. 1991. The relationships of the coelacanth, *Latimeria chalumnae*: Evidence from sequences of vertebrate 28S ribosomal RNA genes. Environmental Biology of Fishes 32: 119-130.

Ammerman, L. K., and D. C. Morizot. 1989. Biochemical genetics of endangered Colorado squawfish populations. *Transactions of the American Fisheries Society* 118 (4): 435-440.

PUBLICATIONS – NON PEER-REVIEWED UNDERGRADUATE RESEARCH JOURNAL:

- Mobley, A. and L. K. Ammerman. 2014. Isolation, sequence, and characterization of p53 mRNA in various bat species. *Crius: Angelo State Undergraduate Research Journal* 2 (1): 35-43.
- Denham, A. N. and L. K. Ammerman. 2014. Using DNA barcoding to identify seeds in fecal samples of fruit eating bats. *Crius: Angelo State Undergraduate Research Journal* 2 (1): 45-50.
- Demere, K. D., R. M. Rodriguez, and L. K. Ammerman. 2013. Investigation of bat activity in northern Tom Green and southwestern Coke counties. *Crius: Angelo State Undergraduate Research Journal* 1 (1): 39-46.
- Langley, L., N. E. Strenth, and L. K. Ammerman. 2013. Identification of filamentous red algal species *Batrachospermum involutum* (Rhodophyta: Batrachospermales) from the South Concho River of west central Texas. *Crius: Angelo State Undergraduate Research Journal* 1 (1): 47-52.

PRESENTATIONS AT PROFESSIONAL MEETINGS (with colleagues and students):

- Decker, S. K., and L. K. Ammerman. 2018. Investigation of the phylogeographic structure of the subspecies of northern yellow bats (*Dasypterus intermedius*) by molecular analysis. 2018. Texas Society of Mammalogists, Junction, TX (won Clyde Jones award)
- Jones, D. A., M. P. Holt, S. J. Harrison, L. K. Ammerman, and D. N. Lee. 2018. Assessing multiple paternity in eastern red bats, *Lasiurus borealis*, with microsatellite loci. Texas Society of Mammalogists, Junction, TX (won Bobby Baker award)
- Pourshoushtari, R. D., E. R. Adams, and L. K. Ammerman. 2018. Monitoring site fidelity and seasonal activity of Mexican long-nosed bats at Emory Cave using PIT tags. Texas Society of Mammalogists, Junction, TX (won William B. Davis award)
- Shaffer, A. A., R. C. Dowler, J. C. Perkins, A. W. Ferguson, M. M. McDonough, and L. K. Ammerman. 2018. Genetic variation in subspecies of the eastern spotted skunk (*Spilogale putorius*) with emphasis on the plains spotted skunk (*S. p. interrupta*). Texas Society of Mammalogists, Junction, TX (won TSM award)
- Ammerman, L. K. and M. T. Dixon. 2017. Fluctuations in the colony size of the endangered Mexican long-nosed bat over the past decade. North American Symposium on Bat Research, Knoxville, TN.
- Pourshoushtari, R. D., E. R. Adams, and L. K. Ammerman. 2017. Monitoring site fidelity and seasonal activity of Mexican long-nosed bats at Emory Cave using PIT tags. North American Symposium on Bat Research, Knoxville, TN.
- Demere, K. and L. K. Ammerman. 2017. Molecular analysis of the diet of *Parastrellus hesperus*. Western Bat Working Group, Fort Collins, CO.
- Shaffer, A. A., J. C. Perkins, R. C. Dowler, and L. K. Ammerman. 2017. Genetic structure and differentiation within the Eastern Spotted Skunk (*Spilogale putorius*): A microsatellite analysis. Southwestern Association of Naturalists, Lawton, OK.
- Kuzdak, K. F. and L. K. Ammerman. 2017. Effect of drought conditions on the diet of the Yuma Myotis (*Myotis yumanensis*) based on DNA barcoding. Southwestern Association of Naturalists, Lawton, OK.
- Ammerman, L. K. and M. T. Dixon. 2017. Monitoring the colony size of the Mexican long-nosed bat (*Leptonycteris nivalis*) in Texas using thermal imaging. Southwestern Association of Naturalists, Lawton, OK.
- Jimenez, P. C., B. Skipper, and L. Ammerman. 2017. Identifying and characterizing roosts of *Lasiurus ega* and *Lasiurus intermedius*. Southwestern Association of Naturalists, Lawton, OK and Western Bat Working Group, Fort Collins, CO.
- Decker, S. K. and L. K. Ammerman. 2016. Phylogeography of the Northern Yellow bat (*Lasiurus intermedius*) subspecies in Texas. Poster presentation at the National Collegiate Honors Conference, Seattle, WA.
- Jones, M., N. Strenth, and L. Ammerman. 2016. Dietary analysis of the microwhip scorpion (Palpigradi: Eukoeneniidae) from Valverde County in southwestern Texas. Poster presentation at Southwestern Association of Naturalists, Mexico City.
- Adams, E. R. and L. K. Ammerman. 2016. Demographics and activity of the Mexican long-nosed bat, *Leptonycteris nivalis* (Phyllostomidae) in Big Bend National Park, TX, USA. Poster presentation at Southwestern Association of Naturalists, Mexico City.
- Tipton, C. D. and L. K. Ammerman. 2016. Occurrence of Eptesipox virus in Big Brown bats (*Eptesicus fuscus*). Poster presentation at Texas Society of Mammalogists, Junction, TX and Southwestern Association of Naturalists, Mexico City.
- Jimenez, P. C., B. Skipper, and L. K. Ammerman. 2016. Identifying and characterizing roosts of *Lasiurus ega* and *Lasiurus intermedius*. Texas Society of Mammalogists, Junction, TX and Southwestern Association of Naturalists, Mexico City.

- Demere, K. D. and L. K. Ammerman. 2016. A molecular diet analysis of *Parastrellus hesperus*. Texas Society of Mammalogists, Junction, TX (won William B. Davis award)
- Demere, K. D. and L. K. Ammerman. 2015. A molecular diet analysis of *Parastrellus hesperus*. Poster presentation at North American Society for Bat Research, Monterey, CA.
- Jimenez, P. C., B. Skipper, and L. K. Ammerman. 2015. Identifying and characterizing roosts of *Lasiurus ega* and *Lasiurus intermedius*. Poster presentation at North American Society for Bat Research, Monterey, CA. Won the Basically Bats Wildlife Conservation award.
- Adams, E. R. and L. K. Ammerman. 2015. Seasonal and nightly activity of Mexican long-nosed bats in Texas. North American Society for Bat Research, Monterey, CA.
- Martinez, S. G., L. K. Ammerman, and R. C. Dowler. 2015. Annual and seasonal fluctuations in roost use by *Tadarida brasiliensis* in a highway overpass, San Angelo, Texas. North American Society for Bat Research, Monterey, CA.
- Martinez, S. G., L. K. Ammerman, and R. C. Dowler. 2015. Seasonal fluctuations in roost use by *Tadarida brasiliensis* in a highway overpass, San Angelo, Tom Green County, Texas. Texas Society of Mammalogists, Junction, TX and Southwestern Association of Naturalists, San Diego, CA.
- Denham, A. N. and L. K. Ammerman. 2015. Relationship between the extracellular matrix protein, HAS2 and longevity in bat species. Poster presentation at Texas Society of Mammalogists, Junction, TX.
- Adams, E. R. and L. K. Ammerman. 2015. Demographics and activity of the Mexican long-nosed bat, *Leptonycteris nivalis* (Phyllostomidae) in Big Bend National Park, TX. Poster presentation at North American Joint Bat Working Group meeting, St. Louis, MO and Texas Society of Mammalogists, Junction, TX
- Adams, E. R. and L. K. Ammerman. 2014. Pitfalls of PIT tagging – lessons learned from a colony of Mexican long-nosed bats. North American Symposium for Bat Research. Albany NY.
- Lindsey, L.L. and L.K. Ammerman. 2014. Patterns of genetic diversification in a widespread species of bat, *Molossus molossus* (Chiroptera: Molossidae). North American Symposium on Bat Research, Albany, NY.
- Lindsey, L.L. and L.K. Ammerman. 2014. Patterns of genetic diversification in a widespread species of bat, *Molossus molossus* (Chiroptera: Molossidae). Southwestern Association of Naturalists Annual Meeting, Stillwater, OK.
- Adams, E. R. and Ammerman, L. K., 2014. Community structure and population trends for bats in Big Bend National Park, Texas over the last 18 years. Poster. Texas Society of Mammalogists, Junction, TX and Southwestern Association of Naturalists. Stillwater, OK.
- Horsley, T., Ammerman, L. K., Lim, B. K., Bicknell, J. 2014. The ecological importance of three members of the genus *Artibeus* within the Iwokrama Forest in Guyana, South America: an inventory of dispersed seeds. Texas Society of Mammalogists Meeting, Junction, TX. Poster Presentation.
- Ammerman, L. K., M. T. Dixon, and E. R. Adams. 2013. Annual fluctuations in the colony size of *Leptonycteris nivalis* in Texas estimated using thermal imaging. Poster presentation, International Bat Research Conference, San Jose, Costa Rica.
- Lindsey, L. L. and L. K. Ammerman. 2013. Phylogenetic relationships of bats in the genus *Molossus* (Molossidae: Chiroptera). Poster presentation, International Bat Research Conference, San Jose, Costa Rica.
- Ferguson, A. W., G. I. Guerra, L. K. Ammerman, J. W. Drago, and R. C. Dowler. 2013. Spots on trees: examining the phylogeography of the Western Spotted Skunk (*Spilogale gracilis*). Poster presentation, American Society of Mammalogists, Philadelphia, PA.
- Demere, K. D. and L. K. Ammerman. 2013. Investigation of bat populations and activity in northern Tom Green and southwestern Coke counties. Poster presentation, Texas Society of Mammalogists, Junction, TX.
- Horsley, T., B. Lim, J. Bicknell, and L. Ammerman. 2012. Monitoring bat species communities by Operation Wallacea within the Iwokrama and Surama Forests in Guyana, South America. Poster presentation, North American Symposium on Bat Research, San Juan, Puerto Rico.
- Brashear, W. B., S. Bartlett, and L. K. Ammerman. 2012. Further evidence for the basal divergence of *Cheiromeles* (Chiroptera: Molossidae). Poster presentation, North American Symposium on Bat Research, San Juan, Puerto Rico (won Speleobooks Award) and at Texas Society of Mammalogists (won Clyde Jones Award).
- Tipps, T. M., and L. K. Ammerman. 2012. Morphological and molecular variation in Townsend's big-eared bat (*Corynorhinus townsendii*) in west Texas. Texas Society of Mammalogists, Junction, TX and North American Symposium on Bat Research, Toronto, Canada (in 2011).
- Bartlett, S. N., and L. K. Ammerman. 2012. Relationships among bonneted bats (genus *Eumops*): a molecular test of morphological hypotheses. Texas Society of Mammalogists, Junction, TX.
- Rodriguez Pacheco, P. R. and L. K. Ammerman. 2012. Phylogenetic relationships of three members of the family Vespertilionidae (Chiroptera) from Malaysian Borneo. Poster presentation, Texas Society of Mammalogists, Junction, TX. (won the Clyde Jones award).
- Ammerman, L. K. and M. T. Dixon. 2011. Monitoring the colony size of the Mexican long-nosed bat (*Leptonycteris nivalis*) in Texas using thermal imaging. Poster presentation, Southwestern Association of Naturalists meeting, Tyler, TX

- Frerich, C. F., L. K. Ammerman, and D. Weise. 2011. Genetic analysis of the 5'UTR of Bovine Viral Diarrhea virus. Poster presentation at Texas Academy of Science, Austin, TX. (won 2nd place).
- Tipps, T. M., D.N. Lee, and L.K. Ammerman. 2011. A molecular approach to the phylogenetic position of the naked bat, *Cheiromeles* (Chiroptera: Molossidae). Oral presentation at Texas Academy of Science, Austin, TX.
- Strickland, J. L., J. K. McCoy, J. Osterhout, and L. K. Ammerman. 2011. Phylogeography of the cottonmouth, *Agkistrodon piscivorus*, using AFLP and venom protein profiles. Oral presentation at Texas Academy of Science, Austin, TX. (won 3rd place graduate presentation) and at Southwestern Association of Naturalists, Tyler, TX (won 1st place Wilks Award for best presentation).
- Lewis, A. M. and L. K. Ammerman. 2011. Texas range extensions and county records for the southern yellow bat (*Lasiurus ega*), the northern yellow bat (*L. intermedius*), the Seminole bat (*L. seminolus*), the hoary bat (*L. cinereus*), and the silver-haired bat (*Lasionycteris noctivagans*). Poster presentation at Texas Society of Mammalogists, Junction, TX.
- Tipps, T. M. and L. K. Ammerman. 2011. Morphological and molecular variation in Townsend's big-eared bat (*Corynorhinus townsendii*) in west Texas. Poster presentation at Texas Society of Mammalogists, Junction, TX.
- Frerich, C. and L. K. Ammerman. 2011. Characterization of microsatellite markers for use in *Myotis* bats. Poster presentation at Texas Society of Mammalogists, Junction, TX and oral presentation at Tri-Beta Regional Convention, OK (won 2nd place).
- Bartlett, S. B., M. M. McDonough, and L. K. Ammerman. 2010. Relationships among bonneted bats (genus *Eumops*): a molecular test of morphological hypotheses. Poster presentation at North American Symposium on Bat Research, Denver, CO. and at Texas Society of Mammalogists, Junction, TX in 2011.
- Ammerman, L. K., D. N. Lee, and T. M. Tipps. 2010. Molecular phylogeny of the family Molossidae based on nuclear and mitochondrial genes. Poster presentation at the International Bat Research Conference in Prague, Czech Republic.
- Strickland, J. S., J. K. McCoy, L. K. Ammerman, and John Osterhout. 2010. Preliminary analysis of phylogeographic variation among Texas cottonmouths, *Agkistrodon piscivorus*, using nuclear AFLP markers and venom protein profiles. Poster presentation at Southwestern Association of Naturalists meeting in Junction, TX.
- Frerich, C., L. K. Ammerman, and D. Weise. 2010. Genetic analysis of the 5'UTR of bovine viral diarrhea virus. Poster presentation at Tri Beta Regional Convention, OK
- Tipps, T. M. and L. K. Ammerman. 2010. A molecular approach to the phylogenetic position of *Cheiromeles* (Chiroptera: Molossidae). Tri Beta Regional Convention, OK and Tri Beta National Convention in Denver, CO (won 1st place at national convention and 2nd place at regional for her presentation)
- Tipps, T. M., L. K. Ammerman, and B. Mayes. 2010. Five new county records of bats (Vespertilionidae and Molossidae) in Texas, identified using molecular and morphological techniques. Poster presentation at Texas Society of Mammalogists, Junction, TX
- Ammerman, L. K., D. N. Lee, and M. Tipps. 2009. Molecular phylogeny of the family Molossidae. North American Symposium on Bat Research, Portland, OR.
- Tipps, T. M., D. N. Lee and L. K. Ammerman. 2009. Optimizing PCR conditions in DMP1 for phylogenetic analysis of molossid genera. Poster presentation at Texas Society of Mammalogists, Junction, TX and Beta Beta Beta Regional Convention, OK (won poster award at BBB).
- Dolman, R. W. and L. K. Ammerman. 2009. Molecular systematics of *Nyctinomops* (Chiroptera: Molossidae). Texas Society of Mammalogists, Junction, TX.
- Lee, D. N. and L. K. Ammerman. 2009. Taxonomic status of the Davis Mountains Cottontail, *Sylvilagus robustus* (Lagomorpha: Leporidae) revealed by amplified fragment length polymorphism. Texas Society of Mammalogists, Junction, TX (won the TSM Award for best oral presentation of a systematics paper) and Texas Academy of Science, Junction, TX (tied for 1st place graduate presentation).
- Ammerman, L. K., C. M. Brown, R. A. Medellin, A. Moreno-Valdez, and R. S. Pfau. 2008. Genetic variation and structure in the endangered Mexican long-nosed bat, *Leptonycteris nivalis*: mitochondrial and nuclear perspectives. North American Symposium on Bat Research, Scranton, PA
- Dolman, R. W., and L. K. Ammerman. 2008. Molecular systematics of the genus *Nyctinomops*. North American Symposium on Bat Research, Scranton, PA – poster (won the Basically Bats poster award).
- Lee, D. N., L. K. Ammerman, and R. Pfau. 2008. Using amplified fragment length polymorphism to evaluate patterns of genetic divergence among *Myotis californicus*, *M. ciliolabrum*, and *M. leibii*. North American Symposium on Bat Research, Scranton, PA (won the Karl Koopman presentation award).
- Lee, D. N., L. K. Ammerman, and R. Pfau. 2008. Taxonomic status of the Davis Mountains Cottontail, *Sylvilagus robustus* (Lagomorpha, Leporidae). American Society of Mammalogists, Brookings, SD - poster
- Ammerman, L. K., D. N. Lee, and R. Pfau. 2008. Resolving conflicts between morphological and mitochondrial DNA datasets in *Myotis* bats. American Society of Mammalogists, Brookings, SD

- Brown, C. M., L. K. Ammerman*, R. Medellin, A. Moreno-Valdez, and R. Pfau. 2008. Genetic variation and structure in the endangered Mexican long-nosed bat (*Leptonycteris nivalis*): mitochondrial and nuclear perspectives. American Society of Mammalogists, Brookings, SD
- Lee, D. N., L. K. Ammerman, and R. S. Pfau. 2008. Resolving conflicts between morphological and mitochondrial DNA data sets in *Myotis* bats. Texas Academy of Science, Corpus Christi, TX
- Ferguson, A. W., and L. K. Ammerman. 2008. Molecular phylogenetics of west-central African shrews: an emphasis on *Paracrocidura*. Texas Academy of Science, Corpus Christi, TX
- Guerra, G. I., L. K. Ammerman, and R. C. Dowler. 2008. Phylogeography of western spotted skunks based on cytochrome b DNA sequence, Texas Academy of Science, Corpus Christi, TX (won 3rd place for her presentation)
- Lee, D. N., L. K. Ammerman, and R. S. Pfau. 2008. Resolving conflicts between morphological and mitochondrial DNA data sets in *Myotis* bats. , Texas Society of Mammalogists, Junction, TX
- Brown, C. M., L. K. Ammerman, Rodrigo Medellin, Arnulfo Moreno-Valdez, and Russell Pfau. 2008. Genetic variation and structure in the endangered Mexican long-nosed bat (*Leptonycteris nivalis*): mitochondrial and nuclear perspectives. , Texas Society of Mammalogists, Junction, TX
- Guerra, G., L. K. Ammerman, and R. C. Dowler. 2008. Phylogeography of western spotted skunks based on cytochrome b DNA sequence. , Texas Society of Mammalogists, Junction, TX
- Webb, L. C., L. K. Ammerman, C. M. Brown, M. T. Dixon, R. C. Dowler, G. I. Guerra, M. M. McDonough and R. M. Rodriguez. 2008. Impact of military training on bat activity and diversity at Texas Army National Guard sites. Texas Society of Mammalogists, Junction, TX, poster.
- Ammerman, L. K. and M. T. Dixon. 2008. Monitoring changes in the bat community of the Big Bend region: trends over the last 40 years. Texas Wildlife Diversity Conference, Houston, TX.
- McDonough, M. M., L. K. Ammerman, R. M. Timm, H. H. Genoways, R. J. Baker. 2007. Molecular and morphological variability within a karyotypically complex species, *Eumops glaucinus*, and its closest relative *Eumops floridanus*. American Society of Mammalogists, Albuquerque, NM.
- Brown, C. M., L. K. Ammerman, and R. A. Medellin. 2007. Genetic variation in the endangered Mexican long-nosed bat (*Leptonycteris nivalis*): a digenomic approach. Poster presentation at American Society of Mammalogists, Albuquerque, NM.
- Ferguson, A. W. and L. K. Ammerman. 2007. Molecular identification and phylogeny of cryptic African shrews inferred from cytochrome b sequences. Texas Academy of Sciences, Waco, TX.
- Brown, C. M. and L. K. Ammerman. 2007. Sexual segregation and community composition: a seasonal perspective on the bats of the Chisos Mountains, Big Bend National Park. Texas Academy of Sciences, Waco, TX.
- McDonough, M. M. and L. K. Ammerman. 2007. Use of nuclear introns to detect congruence among mitochondrial and morphological data sets in the bonneted bats *Eumops glaucinus* and *Eumops floridanus* (Chiroptera: Molossidae). Texas Academy of Sciences, Waco, TX.
- Dastidar, E. and L. K. Ammerman. 2007. Screening families of bats for the short interspersed DNA element called VES SINE. Poster presentation at Texas Academy of Sciences, Waco, TX.
- McDonough, M. M., A. W. Ferguson, and L. K. Ammerman. 2007. Chiropteran survey of Ecuador with an emphasis on the family Molossidae. Poster presentation at Texas Society of Mammalogists. Junction, TX.
- Brown, C. and L. K. Ammerman. 2007. Population genetics and natural history of the endangered Mexican Long-nosed bat, *Leptonycteris nivalis*. Poster presentation at Texas Society of Mammalogists. Junction, TX.
- Ferguson, A. W. and L. K. Ammerman. 2007. Phylogenetic relationships within a community of African shrews (Soricomorpha: Soricidae). Poster presentation at Texas Society of Mammalogists. Junction, TX.
- Guerra, G., L. K. Ammerman, and R. C. Dowler. 2007. Geographic variation within the Western Spotted Skunk (*Spilogale gracilis*). Poster presentation at Texas Society of Mammalogists. Junction, TX.
- Weir, D. L., S. Tomlinson, K. Dybdahl, L. K. Ammerman and C. W. Jones. 2006 Characterization of a strain of *Staphylococcus caprae* that harbors the gene for enterotoxin A. American Society for Microbiology Texas Branch Fall Meeting. November 2006.
- Ammerman, L.K., T. H. Kunz, N. Hristov, M. McDonough, M. T. Dixon, and R. Skiles. 2006. Use of infrared thermal imaging to census the endangered Mexican Long-nosed bat (*Leptonycteris nivalis*) in Big Bend National Park, Texas. Southwestern Association of Naturalists, Colima, Mexico.
- McDonough, M., A. C. Bishop, C. E. Ebeling, R. C. Dowler, and L. K. Ammerman. 2006. Mammals associated with Terlingua Creek in the Rio Grande river basin. Southwestern Association of Naturalists, Colima, Mexico.
- McAllister, C. T., C. R. Bursey, S. J. Upton, R. C. Dowler, and L. K. Ammerman. 2006. Some new host and geographic distribution records for parasites (Coccidia, Trematoda) from bats (Vespertilionidae) and rodents (Heteromyidae, Muridae) in Arkansas and Texas. Southwestern Association of Parasitologists, Lake Texoma, Oklahoma.
- McDonough, M. and L. K. Ammerman. 2006. Genetic variation in the bonneted bats: *Eumops glaucinus* and *Eumops floridanus* (Chiroptera: Molossidae). Texas Society of Mammalogists. Junction, TX (won the TSM Award).

- McDonough, M. and L. K. Ammerman. 2006. Genetic variation in the bonneted bats: *Eumops glaucinus* and *Eumops floridanus* (Chiroptera: Molossidae). Texas Academy of Science. Beaumont, TX (won the Best Graduate Student Presentation award).
- McDonough, M., L. K. Ammerman, and R. Timm. 2005. Karyotypic and morphological variation in the bonneted bat, *Eumops glaucinus*. North American Symposium on Bat Research, Sacramento, CA.
- Ammerman, L.K., T. H. Kunz, N. Hristov, M. McDonough, M. T. Dixon, and R. Skiles. 2005. Use of infrared thermal imaging to census the endangered Mexican Long-nosed bat (*Leptonycteris nivalis*) in Big Bend National Park, Texas. North American Symposium on Bat Research, Sacramento, CA.
- Ammerman, L. K., Vestal, A. L., R. C. Dowler. 2005. Genetic variation in the Davis Mountains cottontail (*Sylvilagus robustus*). American Society of Mammalogists, Springfield, MO.
- McDonough, M. and L. K. Ammerman. 2005. Genetic and karyotypic variation in the bonneted bat (*Eumops glaucinus*). American Society of Mammalogists, Springfield, MO.
- Bishop, A. C. and L. K. Ammerman. 2005. A molecular approach to the phylogenetic position of *Myotis*. Texas Society of Mammalogists (Junction, TX), American Society of Mammalogists (Springfield, MO) and North American Symposium on Bat Research (Sacramento, CA).
- Ammerman, L. K. Bat diversity and natural history in the Big Bend region. 2005. Sam Houston State University, invited seminar, April
- Rodriguez, R. M., L. K. Ammerman, and M. T. Dixon. 2004. Comparison of two survey methods used for bats along the Lower Canyons of the Rio Grande in Big Bend National Park, Chihuahuan Desert Research Symposium, Alpine, TX.
- Vestal, A. L., L. K. Ammerman, and R. C. Dowler. 2004. Examination of genetic variation in *Sylvilagus robustus* from the Chisos Mountains based on mitochondrial DNA sequence. Texas Society of Mammalogists poster presentation, Junction, TX and Chihuahuan Desert Research Symposium, Alpine, TX.
- Clement, S., R. C. Dowler, and L. K. Ammerman. 2004. Phylogeographic relationships of endemic rodent species of the Galapagos Islands. American Society of Mammalogists, Humboldt, CA.
- Ammerman, L.K. and L. Smith. 2004. Systematics of the bat family Molossidae using nuclear DNA sequences. Southwestern Association of Naturalists, San Antonio, TX and American Society of Mammalogists, Humboldt, CA.
- Bradstreet, S. G. and L. K. Ammerman. 2004. Genetic diversity among shrews of Gabon, Africa. Texas Society of Mammalogists poster presentation, Junction, TX.
- Smith, L. and L. K. Ammerman. 2004. Systematics of the bat family Molossidae using nuclear DNA sequences. Texas Society of Mammalogists oral presentation, Junction, TX (won the Rollin H. Baker award)
- Debelica, A., A.K. Matthews and L.K. Ammerman. 2003. Dietary study of big free-tailed bats, *Nyctinomops macrotis*, in Big Bend National Park, Texas. Texas Society of Mammalogists, Junction, TX (Won the Rollin H. Baker award)
- Matthews, A.K. and L.K. Ammerman. 2003. Food habits of two morphologically similar free-tailed bats, *Nyctinomops femorosaccus* and *Tadarida brasiliensis*, from Big Bend National Park, Texas. Texas Society of Mammalogists, Junction, TX (Won the William B. Davis Award)
- Rodriguez, R. M. and L.K. Ammerman. 2003. Molecular phylogenetics of the *Myotis californicus* and *Myotis ciliolabrum* complex: morphological separation is not corroborated by mitochondrial DNA divergence. Texas Society of Mammalogists, Junction, TX
- Matthews, A.K. and L.K. Ammerman. 2002. Food habits of the free-tailed bats, *Nyctinomops femorosaccus* and *Tadarida brasiliensis*, from Big Bend National Park, Texas. North American Symposium on Bat Research, Burlington, VT
- Rodriguez, R. M. and L.K. Ammerman. 2002. Phylogeography of *Myotis californicus* and *Myotis ciliolabrum* in the southwestern United States. North American Symposium on Bat Research, Burlington, VT
- Ammerman, L.K. and R.M. Rodriguez. 2002. Molecular systematics of *Eumops*. American Society of Mammalogists, McNeese State University, Lake Charles, LA and North American Symposium on Bat Research, Burlington, VT
- Higginbotham, J.L., A.K. Matthews, L.K. Ammerman, and M.T. Dixon. 2002. Roosting ecology and seasonal occurrence of the pocketed free-tailed bat, *Nyctinomops femorosaccus* in Big Bend National Park, Texas, Poster presentation at American Society of Mammalogists, McNeese State University, Lake Charles, LA
- Rodriguez, R. M. and L.K. Ammerman. 2002. Genetic substructuring of *Myotis californicus* and *Myotis ciliolabrum*. American Society of Mammalogists, McNeese State University, Lake Charles, LA
- Ammerman, L.K. 2001. Investigating the evolutionary history of cockatoos with molecular data. Angelo State University, San Angelo, TX.
- Rodriguez, R. M., L. K. Ammerman, and M. T. Dixon. 2000. Geographic variation and genetic substructuring of *Myotis californicus* and *Myotis ciliolabrum*. Southwestern Association of Naturalists, Denton, TX.

- Rainey, E. M., L. K. Ammerman, and M. T. Dixon. 2000. Overlap and diversity in the diets of frugivorous bats in the lowland tropical rainforest of Costa Rica. Southwestern Association of Naturalists, Denton, TX and Texas Society of Mammalogists, Junction, TX.
- Ammerman, L. K. 2000. Species diversity, seasonal abundance, and notes on the natural history of the bats in Big Bend National Park. Invited speaker at Sul Ross State University, Alpine, Texas; and presented for Science and Resource Management Research Series at Big Bend National Park, TX.
- Higginbotham, J. L., L. K. Ammerman, M. T. Dixon, and A. K. Matthews. 1999. Roosting ecology and seasonal dynamics of free-tailed bat species in Big Bend National Park, Texas. Poster presentation at the Chihuahuan Desert Research Symposium, Sul Ross State University, Alpine, TX.
- Matthews, A. K., J. L. Higginbotham, L. K. Ammerman, and M. T. Dixon. 1999. Observations on the western yellow bat *Lasiurus xanthinus* in Texas. Poster presentation at the Chihuahuan Desert Research Symposium, Sul Ross State University, Alpine, TX.
- Chippindale, P.T., L. K. Ammerman, D. G. Barker, and M. B. Harvey. 1999. Phylogenetic and biogeographic history of Australasian scrub pythons, genus *Morelia*. Society for the Study of Evolution, Madison, WI.
- Richey, R., L. K. Ammerman, and M. T. Dixon. 1999. Determination of monophyletic lineages in the parrot family *Cacatuidae*. Society for the Study of Evolution, Madison, WI and Texas Academy of Sciences, Seguin, TX.
- Ammerman, L. K., J. L. Higginbotham, and M. T. Dixon. 1999. Roosting ecology and seasonal population fluctuations of free-tailed bat species in Big Bend National Park, Texas. Southwestern Association of Naturalists, Monterrey, Mexico and Texas Academy of Sciences, Seguin, TX.
- Dixon, M. T., J. L. Higginbotham, and L. K. Ammerman. 1999. Observations on the western yellow bat *Lasiurus xanthinus* in Texas. Southwestern Association of Naturalists, Monterrey, Mexico and Texas Academy of Sciences, Seguin, TX.
- Matthews, A., L. K. Ammerman, J. L. Higginbotham, and M. T. Dixon. 1999. Observations on the western yellow bat *Lasiurus xanthinus* in Texas. Texas Society of Mammalogists, Junction, TX
- Higginbotham, J., L. K. Ammerman, and M. T. Dixon. 1998. The Chiropteran community structure, activity patterns and seasonal dynamics within the desert lowlands of Big Bend National Park, and notes on *Lasiurus xanthinus* in Texas. North American Symposium on Bat Research. Hot Springs, AR.
- Foxworth, S., M. T. Dixon, J. Higginbotham and L. K. Ammerman. 1998. A two year analysis of the reproductive cycles of the bats of Big Bend National Park, Texas. Poster presentation at the meeting of the Southwestern Association of Naturalists. Albuquerque, NM.
- Higginbotham, J. L., L. K. Ammerman, M. T. Dixon. 1998. Roosting ecology, activity patterns, and community structure of three species of free-tailed bats in Big Bend National Park, Texas. Southwestern Association of Naturalists. Albuquerque, NM.
- Higginbotham, J., L. K. Ammerman, and M. T. Dixon. 1997. Noteworthy records on several species of rare bats of Big Bend National Park, Texas. North American Symposium on Bat Research. Tucson, AZ.
- Foxworth, S., M. T. Dixon, J. Higginbotham and L. K. Ammerman. 1997. Evidence of early parturition in several bat species in Big Bend National Park. Poster presentation at the North American Symposium on Bat Research. Tucson, AZ.
- Higginbotham, J., L. K. Ammerman, and M. T. Dixon. 1997. Rare bats of the Chihuahuan Desert, Big Bend National Park. Texas Society of Mammalogists, Junction, TX.
- Ammerman, L. K., J. Willard, P. Chippindale, and J. Campbell. 1996. Phylogeny and biogeography of Central American arboreal alligator lizards (genus *Abronia*). Society for the Study of Evolution presentation, St. Louis, MO.
- Chippindale, P., L. K. Ammerman, J. Campbell, and D. Lawson. 1996. Phylogeny, species boundaries, and biogeography of Middle American jumping vipers, Genus *Atropoides*. Society for the Study of Evolution presentation, St. Louis, MO.
- Farha, H. R., L. K. Ammerman, and M. T. Dixon. 1995. Small-mammal survey of the Fort Worth Nature Center. Beta Beta Beta Biological Honor Society Southcentral Regional Convention presentation, University of Oklahoma Biological Station.
- Ammerman, L. K. 1992. A molecular test of bat relationships: monophyly or diphyly? Texas Society of Mammalogists presentation, Junction, TX.
- Ammerman, L. K. 1991. A molecular test of bat relationships using 12S rDNA sequence. North American Symposium on Bat Research, Austin, TX.
- Dixon, M. T. and L. K. Ammerman. 1991. A survey of the bat community of Corcovado National Park, Costa Rica. Poster presentation at the North American Symposium on Bat Research, Austin, TX and Texas Society of Mammalogists, Junction, TX.
- Hillis, D. M., R. de Sá, L. K. Ammerman, and M. T. Dixon. 1990. Phylogeny of amphibians based on ribosomal DNA sequences. Presented at the Phylogeny of Amphibia Symposium, American Society of Zoologists, San Antonio, TX.
- Ammerman, L. K. and D. M. Hillis. 1990. Relationships within Archontan mammals based on 12S rDNA sequence. American Society of Zoologists, San Antonio, TX.
- Dixon, M. T., L. K. Ammerman, and D. M. Hillis. 1990. Effects of secondary structure on the evolution of vertebrate 28S rRNA. American Society of Zoologists, San Antonio, TX.

GRANTS:

- Genetic Analysis of Multiple Paternity in Red Bats* (ASU Faculty Research Enhancement Program grant, \$14,830, September 2017-August 2018)
- Binational Conservation of an Endangered Pollinator: Research, Protection, and Recovery for the Mexican Long-nosed Bat*. (contract with Bat Conservation International TPWD Section 6 funding, \$21,486 to ASU, April 2017)
- Status of Spotted Bats in West Texas Based on Echolocation Call Data*, (Research Enhancement Grant, \$12,325, Summer 2015)
- A Baseline Assessment of the Mammals, Reptiles, and Amphibians of Devil's River State Natural Area, South Unit*, (Texas Parks and Wildlife Department, Co-PIs Robert Dowler and Michael Dixon, \$43,299, December 2012-August 2015)
- Modernization and Digitization of the Angelo State Natural History Collections* (National Science Foundation, Co-PIs Bonnie Amos, Robert Dowler, Michael Dixon and Terry Maxwell, \$480,865, July 2012- May 2015)
- Molecular identification of unknown bat species from the Texas Department of State Health Services* (ASU Research Enhancement grant for \$11,000, Sept 2012)
- Defining species boundaries in Myotis bats using microsatellite DNA* (ASU Research Enhancement Grant for \$16,427, March 2011)
- Developing collaborative teaching/research programs with colleagues in Malaysia* (Faculty Development and Enrichment Grant for \$8220, Jan 2010)
- Census of the Endangered Mexican Long-nosed Bat in Big Bend National Park Using Thermal Imaging* (Research Enhancement Grant for \$5949, Summer 2009)
- Bats of Texas* (Faculty Innovation Grant for \$10,000, May 2008)
- Using DNA sequence data to determine relationships within the free-tailed bat family* (Faculty Innovation Grant for \$86,210, December 2007)
- Genomics Educational Matching Funds Grant for GenomeLab CEQ8000 Genetic Analyzer* (Beckman Coulter, Inc awarded \$50,000 in matching funds to ASU for purchase of this automated capillary electrophoresis system for DNA sequencing and fragment analysis, December 2007)
- Use of DNA fingerprinting technique to resolve conflict between datasets in Myotis bats* (Research Enhancement grant for \$9922, Spring 2007)
- Thermal cycling equipment for gene amplification and DNA sequencing* (Research Enrichment grant \$4995, Fall 2006)
- Tracking Andean speciation events in the free-tailed bats of eastern Ecuador* (President's Circle grant \$3000, Summer 2006)
- Genetic sampling of museum specimens* (Research Enrichment Grant \$1952, Fall 2006)
- Bat survey of Texas National Guard sites* (with Robert Dowler; contract with Texas National Guard for \$64,795)
- Travel grant to attend American Society of Mammalogists meeting in June 2005* (Annual fund/President's Circle grant \$2400)
- DNA sequence variation in the bonneted bat* (*Eumops glaucinus*) (Research Enhancement Grant for \$10,000 in 2005)
- Field survey of small and medium-sized mammals of the Rio Grande Corridor* (with Robert Dowler; subcontract with Sul Ross University from USDA grant, \$24,731 – 1 September 2004-31 August 2005; renewed for \$33,747 in 2006)
- Test of a new census method to count *Leptonycteris nivalis** (North American Bat Conservation Partnership grant for \$5,000 – June 2004-2006)
- A multi-gene approach to the phylogeny reconstruction of free-tailed bat genera* (Research Enhancement Grant for \$10,000 in 2002)

HONORS AND AWARDS:

- Outstanding Woman Leader award, West Texas Association of Women in Science, April 2018
- TTU Chancellor's Council Distinguished Research Award, December 2010
- ASU President's award for Excellence in Research/Creative Endeavor, May 2010
- Research Associate appointment to The Museum, Texas Tech University
- Friends of the UTA Library Faculty Award \$500 (1999)
- Hartman Fellowship - University of Texas at Austin Department of Zoology \$1500 (1992)
- Texas Society of Mammalogists Award for best oral presentation \$100 (1992)
- Best poster presentation at 21st Bat Research Conference \$100 (1991)
- Temple Foundation Scholarship \$1500 (1983 and 1984)
- Gamma Delta Sigma, Phi Kappa Phi, and Beta Beta Beta Biological Honor Society

RESEARCH STUDENTS ADVISED:

Virginia Jaquish – An investigation of *Agave* flower visitation by *Antrozous pallidus* in the Big Bend region of Texas (MS thesis student and graduate research fellow, September 2017-present)

Roxy Pourshoushtari – Genetic variation in endangered Mexican long-nosed bats (MS thesis student and graduate research fellow, January 2017-present)

Sam Harrison – Patterns of genetic diversity within Southern Yellow bats (*Lasiurus ega*) based on microsatellite analysis (faculty-mentored research grant recipient, Fall 2017-present)

Sam Harrison – Microsatellite analysis of *Myotis ciliolabrum* and *Myotis californicus* (undergraduate research student, Spring 2017)

Alex Shaffer – Patterns of gene flow in *Spilogale putorius interrupta* based on microsatellite markers (MS thesis student co-advised with R. Dowler, graduated summer 2017)

Sydney Decker – Phylogeography of Northern yellow bats (*Lasiurus intermedius*) (First-year research experience (FYRE) fellow and undergraduate faculty-mentored grant recipient, Fall 2015-Spring 2017)

Katie Kuzdak – Molecular diet analysis (MS thesis student, Fall 2015-present)

Craig Tipton - Occurrence of Eptesipox virus in Big Brown bats (*Eptesicus fuscus*). (undergraduate faculty-mentored grant recipient, Fall 2015-Spring 2016)

Krysta Demere – Molecular diet analysis of reproductive female American Parastrelles, *Parastrellus hesperus* (MS thesis student, graduated May 2016)

Citlally Jimenez – Identifying and characterizing roosts of southern and northern yellow bats (*Lasiurus ega* and *L. intermedius*), (MS thesis student, graduated May 2016)

Aimee Denham – Relationship between the extracellular matrix protein HAS2 and longevity in bat species (undergraduate faculty-mentored grant recipient and Honor's thesis project, Fall 2014-Spring 2015)

Grayson Allred – Bat activity at Devil's River State Natural Area, Big Satan Unit (MS thesis student co-advised with R. Dowler, graduated December 2016)

Stephanie Martinez – Annual and seasonal fluctuations in urban roost use by *Tadarida brasiliensis* (MS thesis student co-advised with R. Dowler, graduated December 2015)

Erin Adams – Cave use and migratory movements of Mexican long-nosed bats (*Leptonycteris nivalis*) (MS thesis student, graduated December 2015)

Tom Horsley – The ecological importance of three members of the genus *Artibeus* within the Iwokrama Forest in Guyana, South America (MS thesis student and Student Research Fellow, graduated May 2014)

Laramie Lindsey – Molecular systematics and genetic diversity within the genus *Molossus* (MS thesis student and Student Research Fellow, graduated May 2014)

Alexis Mobley – Characterization of p53 transcript variants expressed in bat species (undergraduate research, faculty mentored grant, Fall 2013-Spring 2014)

Krysta Demere – Investigation of bat populations and activity in northern Tom Green and southwestern Coke counties (undergraduate research, faculty mentored grant, May 2012-2013)

Wes Brashear – Genetic structure of a striped skunk population in an urban environment, (MS thesis student and Student Research Fellow, graduated August 2013), co-advised with R. Dowler.

Candace Frerich – Investigation of hAT and piggyBAC transposase activity in mouse eared bats (genus *Myotis*) (undergraduate research project and Student Research Fellow, Fall 2011)

Sarah Bartlett – Molecular systematics of bonneted bats (Molossidae: *Eumops*) based on mitochondrial and nuclear DNA sequences, (MS thesis project, Fall 2010- 2012 and Student Research Fellow, graduated May 2012)

Krysta Demere – Noteworthy county records for 14 bat species based on specimens submitted to the Texas Department of State Health Services (undergraduate research project, 2012)

Pablo Rodriguez – Phylogenetic relationship of six rare members of the family Vespertilionidae (Chiroptera) from Malaysian Borneo (MS thesis project and Student Research Fellow, graduated May 2013)

Candace Frerich – Developing a microsatellite protocol for use in *Myotis* bats (undergraduate research project, Fall 2010-Spring 2011)

Marie Tipps – Genetic and morphological variation in Townsend's big-eared bat, *Corynorhinus townsendii*, in west Texas (Carr Research Scholar 2010-2011, MS thesis student, graduated May 2012)

Andrea Lewis – Molecular identification of bats submitted to the Texas Department of State Health Services (undergraduate research project, Fall 2010-Spring 2011)

Sarah Bartlett – Multi-gene phylogeny of *Eumops* species (undergraduate research project, Spring 2010)

Jason Strickland – Phylogeographic variation in the cottonmouth, *Agkistrodon piscivorus*, in Texas using nuclear AFLP markers and venom protein profiles (MS thesis project, co-advised with J. K. McCoy, graduated May 2011)

Candace Frerich – Genotyping isolates of the Bovine Viral Diarrheal Virus using DNA sequence of the 5' UTR (undergraduate research project, Fall 2009-2010, Internship with Texas Vet Labs, San Angelo, TX)

Marie Tipps – A molecular approach to the phylogenetic position of *Cheiromeles* (Chiroptera: Molossidae) (Carr Research Scholar 2009-2010, undergraduate)

- Richard Dolman** – Molecular systematics of the genus *Nyctinomops* (Carr Research Scholar, MS thesis, graduated August 2009)
- Dana Lee** – Taxonomic status of *Sylvilagus robustus* as revealed by amplified fragment length polymorphisms (Carr Research Scholar, MS thesis project, graduated May 2009)
- Carson Brown** – Genetic population structure of *Leptonycteris nivalis*: Implications for the conservation of an endangered species (Carr Research Scholar, MS thesis project, graduated May 2008)
- Eeshita Dastidar** - Distribution of the SINE element VES in chiropteran families (Carr Research scholar) and Genetic sampling from museum specimens (undergraduate research, graduated May 2007)
- Adam Ferguson** - Molecular assessment of a community of African shrews (Soricimorpha: Crocidurinae) from west-central Africa (Carr Research Scholar, graduated May 2008)
- Gema Guerra** – Genetic variation in *Spilogale gracilis* (graduate research project, Spring 2006, MS thesis, graduated May 2008), co-advised with R. Dowler
- Garrett Merriman** – Primer design for nuclear introns of myelin basic protein and glial fibrillary acidic protein (undergraduate research project, Spring 2006)
- Courtney Cline** – Cloning and DNA sequencing of African shrews (undergraduate research project in Biochemistry, Spring 2005)
- Molly McDonough** – Genetic and morphological variation in Wagner's bonneted bat, *Eumops glaucinus*, and its closest relative, *Eumops floridanus* (graduate research project, Spring 2005 and MS thesis, graduated Dec. 2007)
- Amy Bishop** – Taxonomic affinity of the genus *Myopterus* based on ND1 sequences (undergraduate research project, Fall 2004)
- Dawn Weir** – Characterization of an enterotoxin A producing strain of coagulase negative *Staphylococcus* (MS thesis, graduated May 2006)
- Scott Clement**- Taxonomic affinities of endemic rodent species of the Galapagos Islands (MS thesis, coadvised with R. Dowler, graduated Dec. 2004)
- Suzanne Tomlinson** - Enterotoxin A production by an atypical Staphylococcal isolate. (graduate research project, co-advised with Crosby Jones, Spring 2002-Spring 2004)
- Lisa Smith** - Investigation of DNA sequence errors among multiple cloned PCR products (undergraduate research project. Fall 2003-Spring 2004)
- Shirley Hammond** –Phylogenetic relationships among cockatoo genera using beta-fibrinogen intron 7 DNA sequence data (Fall 2003 to Spring 2004).
- Melanie Book and Sandy Bradstreet** – Cytochrome b variation in African shrews (undergraduate research project, Spring 2003 and Fall 2003)
- Amy Vestal** – Genetic variation among populations of the Davis Mountains cottontail rabbit, *Sylvilagus floridanus robustus*, in the mountains of Trans-Pecos, Texas. Carr Research Scholar, MS thesis student, co-advised with R. Dowler. Graduated May 2005)
- Anica Debelica** – Diet analysis of Big free-tailed bats in Big Bend National Park (undergraduate research project, Spring 2003)
- Jennifer Apodoca** – Molecular systematics of free-tailed bat genera using beta-fibrinogen DNA sequences (undergraduate research project Spring 2002-Spring 2003)
- Amanda Matthews** – Trophic structuring in two sympatric species of free-tailed bats (M.S. Thesis project, graduated December 2002)
- Rogelio Rodriguez** – Geographic variation and genetic substructuring of *Myotis californicus* and *Myotis ciliolabrum* (Chiroptera: Vespertilionidae) (M.S. Thesis project, graduated December 2002)

UNIVERSITY SERVICE:

- Departmental Graduate Advisor, Department of Biology (2018-present)
- Curator of Frozen Tissues, Angelo State Natural History Collection
- College of Sciences Tenure and Promotion Committee (2010-2011, 2013-present)
- College of Arts and Sciences Curriculum Committee (2012-present)
- Center for Innovation in Teaching and Research Advisory Council (2010-2011)
- International Education Committee member, Angelo State University (2007- present)
- Study Abroad Appeals Committee (2010-2011)
- University Curriculum Committee member, Angelo State University (2006-2008, 2011-present)
- University Curriculum Committee, Chair, Angelo State University (2008-2011)
- College of Sciences Curriculum Committee member, Angelo State University (2007-2011)
- Health Professions Advisory Committee member, Angelo State University (2005-2007)
- Health Services Committee member, Angelo State University (2002)
- ASU Judicial Board (2004-2006)

PROFESSIONAL SERVICE:

- Managing Editor, *The Southwestern Naturalist* (2014-2017)
- Member, Student Awards Committee, North American Society for Bat Research (2012)
- Member, Board of Governors, Southwestern Association of Naturalists (2008-2011, 2018-2021)

- Member, Board of Trustees, Southwestern Association of Naturalists (2009-2015)
- Chair, Student Awards Committee, Southwestern Association of Naturalists (2009-2013)
- Secretary, Southwestern Association of Naturalists (2005-2008)
- Participant, North American Society for Bat Research, "Lunch with a Scientist" (2010)
- Past-President, Texas Society of Mammalogists
- Secretary-Treasurer, Texas Society of Mammalogists (2005-2015)
- Judge for Texas Tech Annual Biological Sciences Symposium (March 2012)
- Texas Society of Mammalogists Conservation Committee (Spring 1999-2001)
- Associate Editor for *Southwestern Naturalist* (2000-2003)
- Member of PhD advisory committees for Julie Parlos (Texas Tech University) and Dana Lee (Oklahoma State University)
- Workshop presenter 2009 and 2010 for Expanding Your Horizons STEM conference at ASU
- Texas Research Institute for Young Scholars (San Angelo ISD) – judged projects (February 2008)
- Reviewer for *Acta Chiropterologica*, *Australian Journal of Zoology*, *Journal of Mammalogy*, *Journal of Heredity*, *Systematic Biology*, National Science Foundation, *The Southwestern Naturalist*, *Western North American Naturalist*, *Texas Journal of Science*, *Arkansas Journal of Science*, Texas Tech Publications, *Methods in Ecology and Evolution*.
- Editorial Assistant for *Systematic Zoology* (Biology) (1991-1992)
- Department representative to the Institutional Animal Care and Use Committee at UTA (1994 to 2001)
- Advisory Board member and workshop presenter for Expanding Your Horizons Conference in Science and Mathematics at Texas Wesleyan University (1995-2000)
- Regional and State Science Fair Judge (1991-2001)