

**Stephanie G. Martinez**  
**Curriculum Vita**

June 2019

Texas A&M Natural Resources Institute  
1919 Oakwell Farms Parkway, Suite 100  
San Antonio, Texas 78218  
210-277-0292 x 106  
stephanie.martinez@ag.tamu.edu

- Education:** **Abilene Christian University**, Abilene, Texas, B. S. in Biology, 2013.
- Angelo State University**, San Angelo, Texas, M. S. in Biology, 2015.  
Thesis Title: Seasonal fluctuations in urban roost use by Brazilian free-tailed bats (*Tadarida brasiliensis*) in a highway overpass, San Angelo, Texas.
- Present Position:** Research Associate, Texas A&M Natural Resources Institute, San Antonio Office; April 2019-present  
**Works with the U.S. Fish and Wildlife Service (and other state, federal, and private partners) to write Species Status Assessments for species of conservation concern, which serve as the scientific basis for policy decisions under the Endangered Species Act (e.g., listing/delisting decisions, recovery planning, etc.).**
- Positions Held:** Research Associate, Texas A&M Natural Resources Institute, Joint Base San Antonio-Camp Bullis, Texas; March 2018-April 2019  
**Assisted with game species management, including: annual white-tailed deer (*Odocoileus virginianus*) population assessments, managing weekend hunter check-ins for harvested game species, estimating deer harvest quotas and managing wild hog (*Sus scrofa*) trapping.**
- Research Associate, Texas A&M Natural Resources Institute, Dyess Air Force Base, Texas; March 2017-March 2018  
**Contracted as the Natural/Cultural Resources Manager at Dyess Air Force Base; built, updated and supported the installation of the Integrated Natural Resource Management Plan (INRMP) for DAFB, and responsible for the execution of environmental monitoring (vegetation, avian, reptile and amphibian, small and large mammal) in support of DOD/military installation compliance with NEPA, Sikes, Endangered Species, and Migratory Bird Treaty Acts.**

Abilene Christian University Natural History Collections Manager,  
Abilene Christian University, Abilene, Texas; January 2016-March 2017  
**Managed and maintained the ACU Natural History Collection (includes mammals, birds, reptiles, amphibians, and invertebrates); prepared and tended to museum specimens and maintained tissue collection, managed data and catalogs, as well as identification cards and tags. Oversaw collecting permits, specimen loans and grant funding proposals.**

Radio Telemetry Technician, Clemson University, Congaree National Park, South Carolina; May 2016-September 2016

**Captured, banded and radio-tagged southeastern myotis (*Myotis austroriparius*) in order to understand roosting preferences for this bat species, and to see if its roosting conditions (temperature, humidity, etc) made it susceptible to White-nose Syndrome during hibernation. Located tagged bats via radio receiver and antenna. Deployed and maintained equipment such as dataloggers (LOTEK SRX800, iButton and HOBO). Conducted habitat characterization survey plots for each bat roost and corresponding random non-roost tree, including woody and herbaceous flora identification.**

Texas Parks and Wildlife Graduate Student Research Assistant, Dept. of Biology, Angelo State University, San Angelo, Texas; July 2013-August 2015

**Part of a field team; trapped, collected and surveyed the mammal species of Devils River State Natural Area, Big Satan Unit (night spotlight use, bat mist net use, Tomahawk live-trap use, pitfall trap use, Sherman box-trap use, transect and grid trapping arrangement use for white-ankled deer mouse, *Peromyscus pectoralis*, micro- and macrohabitat preferences); prepared the collected mammals as museum specimens for the Angelo State Natural History Collection. Included data collection and organization, and a final formal report.**

**Field Experience:** Winter 2009-2019, Christmas Bird Count (point count survey only), Abilene, Texas. With the Big Country Audubon Society. Team Leader for Years 2015-2018.

Fall 2010, small-mammal collecting (bat mist net use, pitfall trap use, Victor mole and gopher kill-trap use, Sherman box-trap use, trap line

arrangement), Elephant Mountain Wildlife Management Area, Texas. With Dr. Tom E. Lee, Jr., primary investigator.

Spring, Summer, and Winter 2011 & 2012, observation and survey of Mexican free-tailed bats (*T. brasiliensis*) and merlin (*Falco columbarius*) (observation techniques only), Abilene, Texas. Primary investigator with Dr. Tom E. Lee, Jr. Study published as a journal article in the Southwestern Naturalist in 2013.

Spring 2013, capturing bat species (bat mist net and harp trap use) for abundance and diversity study, Big Bend National Park, Texas. With Dr. Loren K. Ammerman, primary investigator.

Summer 2013-Summer 2015, observation and collection of mammals (night spotlight use, bat mist net use, Tomahawk live-trap use, pitfall trap use, Sherman box-trap use, transect and grid trapping arrangement; microand macrohabitat characterization), Devils River State Natural Area-Big Satan Unit, Texas. Angelo State University Biology partnership with Texas Parks and Wildlife.

Spring, Summer, Fall, Winter 2014 & Spring and Summer 2015, observation and data collection of Mexican free-tailed bats (*T. brasiliensis*) (hand net use) roosting in a highway overpass, San Angelo, Texas. Primary investigator with Drs. Loren K. Ammerman and Robert C. Dowler. Study completed as Master program thesis.

Spring, Summer, and Fall 2015, capturing and radio-tagging (Advanced Telemetry Systems; Backpack Beepers, and 3 Element Yagi) northern yellow and southern yellow bats (*Dasypterus intermedius* and *D. ega*) for roost preference research (bat mist net, including double- and triplehigh models and harp trap use; AnaBat and Echo Meter EM3+ and Touch use; roost habitat characterization plots, including woody and herbaceous flora identification), Sabal Palm Sanctuary, Brownsville, Texas. With P. Citlally Jimenez, primary investigator.

Summer 2015, capturing American parastrelles (*Parastrellus hesperus*) (bat mist net use) for fecal collection for dietary analysis project, Big Bend National Park, Texas. With Krysta D. Demere, primary investigator.

Fall 2015, capturing and radio-collaring (Advanced Telemetry Systems; Neoprene Collars, and 3- and 5- Element Yagi) skunks (*Mephitis mephitis* and *Conepatus leuconotus*) (night spotlight use and caught animals by hand and bucket when spotted; micro- and macrohabitat characterization)

for behavioral research, Knickerbocker Ranch, Knickerbocker, Texas.  
With Zac T. Ellsworth, primary investigator.

Fall 2015, assisting in field collection of mammals including rodents, bats, medium-sized and large-sized mammals (night spotlight use, bat mist net use, Tomahawk live-trap use, Sherman box-trap use, trap line arrangement) for Fall 2015 Angelo State University Mammalogy class field trips. With Dr. Robert C. Dowler.

Spring 2016, capturing and collecting (Sherman box-trap use, transect and trap line arrangement) Trans-Pecos rodents including *Chaetodipus* sp., *Onychomys* sp., *Dipodomys* sp., and *Reithrodontomys* sp. for rodent genetics project, Elephant Mountain Wildlife Management Area, Texas. Primary investigator.

Spring and Summer 2016, capturing and radio-tagging southeastern myotis (*M. austroriparius*) (bat mist net and hand net use; Advanced Telemetry Systems: Backpack Beepers, and 3- and 5 Element Yagi) for roosting behavior, roost characterization (LOTEK SRX, iButton, HOBO, Trimble use), and White-nose Syndrome research, Congaree National Park, South Carolina. With Sarah “Piper” Kimpel and Dr. Susan Loeb, primary investigator.

Summer 2016, capturing (bat mist net, including double- and triple-high models) and banding bat species of Alabama for diversity study, Talladega National Forest, Alabama. With Southeastern Bat Diversity Network annual Bioblitz.

Spring 2017-Spring 2018, environmental monitoring (vegetation, avian, reptile and amphibian, small and large mammal) in support of DOD/military installation compliance with NEPA, Sikes, Endangered Species, and Migratory Bird Treaty Acts, Dyess Air Force Base, Texas. Primary investigator with Brian L. Pierce, Dr. Israel Parker & Dr. Roel Lopez.

Spring 2018-Spring 2019, feral hog (*S. scrufa*) and white-tailed deer, *O. virginianus* management (Jager Pro Hog Control Systems use, game camera use, spotlight surveys via transects, buck scoring, harvest quota modeling, ArcMap use) in support of the JBSA Natural Resources and Hunting programs, JBSA-Camp Bullis, Texas. Primary investigator with Dr. Roel Lopez.

**Courses Taken:** **Abilene Christian University:** Animal Biology (Zoology), Ecology, Mammalogy, Animal Behavior, Animal Physiology  
**Au Sable Institute:** Animal Ecology, Ornithology, Aquatic Biology  
**Angelo State University:** Scientific Writing, Research and Thesis hours, Statistics, Molecular Systematics, Evolutionary Ecology, Biometry, Experimental Design (Statistics), Ecological Modeling (GIS), Natural History of Bats, Genetics, Evolution, Advanced Biology

**Skills:** ArcGIS, Microsoft Excel, Word and PowerPoint, R Studio program knowledge  
-Knowledge in ecological/demographic/population models, and statistical analysis in R

Knowledge in field equipment: Dataloggers (HOBO, iButton, LOTEK SRX, Trimble GeoExplorer), GPS (most familiar with Garmin and Trimble models), remote-triggered game cameras, live-animal traps (Sherman box-traps, Tomahawk live-traps, bat/bird mist nets), radio telemetry (radio collars, radio tags (most familiar with backpack beepers), radio transmitter/receiver use; most familiar with Advanced Telemetry Systems), acoustic monitoring (Anabat, SM4BAT FS, Echo Meter EM3+ and Touch II PRO; AnaBat and Kaleidoscope programs), animal tagging (pit-tags, ear tags, bird and bat banding).

Knowledge in North American mammal and bird identification. Familiar with central and west Texas, Trans-Pecos woody and herbaceous flora; familiar with vegetation characterization and monitoring/maintenance techniques.

Knowledge in wild game management and buck scoring, population assessment and annual harvest quota modeling. Knowledge in feral hog (*S. scrofa*) management; able to dispatch an animal via a firearm.

Familiar with installation INRMP's, ICRMP's, and IPMP's, as well as NEPA, Sikes, Migratory Bird and Endangered Species Treaty Acts. Able to effectively apply professional knowledge to comply with Federal, State and/or local environmental law, regulations, and guidelines, and able to make decisions and recommendations concerning assigned restoration, compliance, conservation, and/or integration principles and practices. Familiar with Species Status Assessment writing and able to partner with the U.S Fish and Wildlife Service and affiliated state and federal partners and species experts. Familiar with public speaking, teaching, and public education, as well as research and data presentations.

Permit (Texas Parks and Wildlife, and US Fish and Wildlife) holder for mammal (including rodents, medium-sized mammals and bats) capturing, handling (tagging and banding), salvaging and collecting (live-take rodent species only), and bird/reptile salvaging (excluding endangered species); Rabies vaccinated with titer check June 2019.

**Current Research:** Feral hog (*S. scrufa*) genetics work with USDA/APHIS (tissue samples taken at Joint Base San Antonio-Camp Bullis); support projects on species of conservation concern (Species Status Assessments)

**Society Affiliations:** Southwestern Association of Naturalists (Student Member 2014 & 2015; 2016-2019)

Texas Society of Mammalogists (Student Member 2008-2015; 2016-2019)

North American Society for Bat Research (Student Member 2014-2015; 2016-2019)

**Presentations:** Martinez, S. G and T. E. Lee, Jr. 2013. Predation on Mexican free-tailed bats (*Tadarida brasiliensis*) by merlin (*Falco columbarius*). Poster presentation at Texas Society of Mammalogists, Junction, TX and Abilene Christian University Undergraduate Research Festival, Abilene, TX.

Martinez, S. G., L. K. Ammerman, and R. C. Dowler. 2014. Seasonal fluctuations in urban roost use by *Tadarida brasiliensis* in a highway overpass, San Angelo, Tom Green Co., Texas. Poster presentation at North American Symposium for Bat Research, Albany, NY.

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. Oral presentation at Texas Society of Mammalogists, Junction, TX, Southwestern Association of Naturalists, San Diego, CA, North American Symposium for Bat Research, Monterey, CA.

Martinez, S. G. and B. L. Pierce. 2017. Summer Activity of Bat Species at Dyess Air Force Base, Texas. Poster presentation at North American Symposium for Bat Research, Knoxville, TN.

**Publications:** Martinez, S. G and T. E. Lee, Jr. 2013. Predation on Mexican free-tailed bats (*Tadarida brasiliensis*) by merlin (*Falco columbarius*). The Southwestern Naturalist 58(4):513-516.

Martinez, S. G., L. K. Ammerman, and R. C. Dowler. Seasonal fluctuations in urban roost use by Brazilian free-tailed bats (*Tadarida brasiliensis*) in a highway overpass, San Angelo, Texas. (completed for thesis, manuscript in preparation).