TEXAS STATE VITA

I. Academic/Professional Background

A. Name: Ivan Castro-Arellano Title: Associate Professor

B. Educational Background

Degree	Year	University	Major	Thesis/Dissertation
PhD	2005	Texas A&M	Wildlife and Fisheries Sciences	Ecological patterns of the small mammal communities at El Cielo Biosphere Reserve, Tamaulipas, México.
MS	2000	Texas A&M	Wildlife and Fisheries Sciences	Non-thesis
BS	1997	Universidad Nacional Autónoma de México	Biology	Patterns of geographic distribution in the terrestrial mammals of Africa

C. University Experience

Position	University	Dates
Associate Professor	Texas State University	August 2017 – to date
Assistant Professor	Texas State University	Aug 2011 – July 2017
Assistant Professor	Instituto Tecnológico de Ciudad Victoria	Jan 2010 – July 2011
Postdoctoral Fellow	Center for Environmental Sciences and Engineering. University of Connecticut	Jan 2006 – Dec 2008

D. Relevant Professional Experience

Position	Entity	Dates
Adjunct Faculty	Instituto de Ecología Aplicada, Universidad Autónoma de Tamaulipas	2010 – to date
Adjunct Faculty	Facultad de Medicina Veterinaria y Zootecnia, Universidad Nacional Autónoma de México	2012 – to date
Research associate	Museum of Natural History of Tamaulipas (TAMUX)	Sept 2011 – to date
Research specialist	Center for Environmental Sciences and Engineering. University of Connecticut	Jan 2009 – to date
Research assistant	Texas A&M University	Jan 2005 – Dec 2005
Field Technician	Montgomery-Watson México (consulting firm)	Jan 1997-July 1998
Research/field assistant	Instituto de Ecología. Universidad Nacional Autónoma de México	1993 - 1996

II. TEACHING

A. Teaching Honors and Awards:

Four official citations from the Student Affairs Office – program that requests graduating students to name a faculty member that most contribute to their success and development (*Erica Ortega, Desiree LaVigne, Jeffrey Jenkerson* and *Pugh Howell*).

B. Courses Taught:

Techniques in Wildlife Management (BIO443/5435, TX State University)
Wildlife Management (BIO4423-5423, Texas State University)
Wildlife and Recreation: Impact, Management, and Policy (BIO4304-5304, TX State University)
Conservation of Large Mammals (BIO4351H / 5324, TX State University)
Biological Resources: Conservation and Planning (BIO4319, TX State University)
Problems in Biological Sciences (BIO5390, TX State University)
Internship in Biological Laboratory Techniques (BIO4481, TX State University)
Ecology of Infectious Diseases in Wildlife (BIO7414, TX State University)
Population and Conservation Biology Seminar (BIO7120, TX State University)
Conservation Biology (Graduate level-Instituto Tecnológico de Cd Victoria, México, 2011)
Community Ecology (Graduate level-Instituto Tecnológico de Cd Victoria, México, 2011)
Foundations of Research (Graduate level-Instituto Tecnológico de Cd Victoria, México, 2010)
Wildlife Management (Upper undergraduate-Instituto Tecnológico de Cd Victoria, México, 2010

C. Graduate Theses/Dissertations or Exit Committees (if supervisor, please indicate):

PhD STUDENTS SUPERVISED (by start date and alphabetically).

Current: 2 (Chair); 3 Total.

Adcock, Michelle (2020). Community Ecology Dynamics of Mammalian Wildlife at Road Crossing Structures in South Texas. Texas State University. Committee Member.

Bahndari, Namrata (2023). Camera-Trap synthesis, temporal niche conservatism, and behavioral plasticity of Euungulate diel activity patterns. **Committee Chair. Student advanced to candidacy in December 2025**. Texas State University. **Chair.**

Velazquez Roa, Tatiana (2024). Spatio-temporal dynamics of tropical mammalian carnivores: functional traits, niche conservatism and human impacts. TX State University. **Committee Chair. Student completed written examination Jan 2026 and will defend proposal Feb 2026.**

Graduates: 2 (Chair); 8 Total (by graduation date and alphabetically).

Guerra, Daniel (2024). Investigating home range size, movement, habitat use, and thermal ecology of the Texas Tortoise (*Gopherus berlandieri*) in south Texas. Texas State University. Committee Member.

Nganda Musila, Simon (PhD. 2019). Factors influencing bat community structure and temporal activity patterns in Arabuko-Sokoke Forest, Malindi-Kenya. University of Nairobi. External Committee member.

Sara Weaver (PhD. 2019). Understanding wind energy impacts on bats and testing reduction strategies in south Texas. Texas State University. **Chair.**

Villamizar-Gomez, Andrea (PhD. 2019). Prevalence and geographic patterns of *Batrachochytrium dendrobatidis* in Texas. Texas State University. Committee member.

Nolen, Zachary (PhD. 2019). A consideration into ways biology-based student organizations facilitate participation in STEM. Texas State University. Committee member.

Matthew Milholland (PhD. 2017). Rodent assemblage structure and ecological factors affecting Hantavirus prevalence at varying spatial scales. Texas State University. **Chair.**

Oscar Rico Chavez (PhD. 2015). Ecological and phylogenetic diversity of bats modulate their viral metacommunities. Universidad Nacional Autónoma de México. External Committee member.

Andre Victor Rubio Carrasco (PhD. 2015). Rodent diversity and its relation with the infectious agent dynamics and encounter frequency among reservoirs from northeast Chihuahua. Universidad Nacional Autónoma de México. External Committee member.

M.Sc. STUDENTS SUPERVISED (by start date and alphabetically).

Current: 8 (Chair or Co-Chair), 8 total.

Juneau, Aom (M.S. 2026). **Committee Chair. Students started Spring 2026.**

Sotiriades, Anna (M.Sc. 2026). **Committee Chair. Student started Spring 2026.**

Taylor, Tate (M.Sc. 2024). Non-thesis M.Sc program. Texas State University. **Co-chair**.

Lofland, Alexandra (M.Sc. 2023). Understanding the relationship between body mass and activity patterns in large neotropical rodents. Texas State University. **Chair.**

Patterson, Kaitlin (M.Sc. 2023). Intraspecific diel temporal niche conservatism and community overlap in neotropical bat populations. Texas State University. **Chair.**

Berry, Jennifer (M.Sc. 2022). SARS-CoV-2 in mammal species around the world. Texas State University. **Chair**.

Gomez, Virgilio (M.Sc. 2021). Non thesis program. Texas State University. **Exit Committee Chair.**

Ramirez, Rosa (M.Sc. 2019). Integrating Host Community Ecology into the Disease Ecology of a Tick-Borne Relapsing Fever Vector. Texas State University. **Chair**.

Graduates: 21 (Chair/Co-chair); 47 Total (by graduation date and alphabetically).

Mena, Brianna (M.Sc. 2025). Ascertaining differential use of cave habitats by mammal species based on soft tick abundance. Texas State University. **Chair**.

McElligot, Brian (M.Sc. 2025). Towards a temporal theory in ecology: body mass role for activity patterns of North American artiodactyls. Texas State University. **Chair.**

Klossing, Brier (M.Sc. 2025). Ecology and evolutionary implications of diel temporal niche conservatism in Afrotropical Euungulates. Texas State University. **Chair.**

Drews, Austin (M.Sc. 2024). American tiger: The historical range of the jaguar in the United States. Texas State University. Committee member.

Berkenkamp, Erin (M.Sc. 2024). Analyzing burrow spacing to assess the establishment of Black-Tailed Prairie Dog (*Cynomys ludovicianus*) colonies. Texas State University. Committee member.

Fallah Abed, Meraj (M.Sc. 2023). Non-thesis MSc program. Texas State University. Committee member.

Guajardo, Christian (M.Sc. 2023). A Regional and Landscape-scale Analysis of the Habitat Associations of the Mexican Wolf (*Canis lupus baileyi*) Reintroduced into New Mexico and Arizona. Texas State University. Committee member.

Bergmanson, Stephanie (M.Sc. 2022). Comparison of Tapir species activity patterns across multiple sites in the Neotropics. Texas State University. **Chair**.

Hernandez-Vazquez, Alfredo (M.Sc. 2022). Efecto de la perturbación de la selva baja caducifolia en la comunidad de helmintos parásitos de roedores. Universidad Autónoma del Estado de Morelos, México. External committee member.

McCain, Wesley (M.Sc. 2022). The metacommunity ecology and community structure of medium- and large-bodied mammals in north Texas. University of North Texas. External committee member.

Pena, Tania (M.Sc. 2022). Endangered fish, invasive parasites, and migratory birds: a habitat modification plan designed to mitigate parasite spillover. Texas State University. Committee member.

Sontheimer, Willis (M.Sc. 2022). Ontogenetic scaling of body mass and antler mass in white-tailed deer (Odocoileus virginianus) consuming contrasting low and high energy diets. Texas State University. Committee member.

Stoneham, Margaret (M.Sc. 2022). Temporal overlap among common mesocarnivores throughout the neotropics. Texas State University. **Chair.**

Beck, Heather (M.Sc. 2021). Diversity of blood meal sources of triatomines and feral hogs as a potential wildlife reservoir for Trypanosoma cruzi in South Central Texas. Texas State University. Committee member.

Tleimat, Jacqueline (M.Sc. 2021). Skirting the Edge: A Study on the Impacts of Habitat Fragmentation on Animal Movements and Assemblages. Texas State University. Committee member.

Bowlsby, Michaela (M.Sc. 2020). Repellant activity of essential oil blends and isolate compounds against adult *Ornithodoros* ticks. Texas State University. **Chair.**

Espinoza, Sebastian (M.Sc. 2020). Drivers of a temporal change in the adult sex ratio of a population of roosevelt elk (*Cervus elaphus roosevelti*). Texas State University. Committee member.

Kilgore, Rebecca (M.Sc. 2020). Detection of *Trypanosoma cruzi* in animals from central Texas, USA. TX State University. Committee member.

Haney, Jared (M.Sc. 2019). Using museum and citizen-science data to examine the range contraction of a threatened lizard species. Texas State University. Committee member.

Spilinek, Sterling (M.Sc. 2019). Rumen-reticulum organ mass and rumen mucosa surface area of white-tailed deer (*Odocoileus virginianus*) consuming two energy diets. Texas State University. Committee member.

Terry, William (M. Sc. 2019). Habitat use of co-occurring anuran species in three dimensional cave environments. Texas State University. Committee member.

Bell, Coby (M.Sc. 2018). **Chair** of exit committee. Texas State University. Non-thesis MSc program student.

Rodriguez, Candice (M.Sc. 2018). Food habits of the invasive mongoose at agricultural landscapes in Puerto Rico. Texas State University. **Chair.**

Javan, Emily (M.Sc. 2018). Small mammal metacommunity structure over global elevational gradients. Texas State University. **Chair.**

Martinez, Jose (M.Sc. 2018). Endoparasite fauna present in the invasive mongoose in Puerto Rico. Texas State University. **Co-Chair**.

Torres, Madison (M.Sc. 2018). Possible role of invasive *Herpestes javanicus* in sustaining cattle fever tick populations in Puerto Rico. Texas State University. **Chair**.

Fink, Alyssa (M.Sc. 2017). Analysis of dispersal, survival, and habitat selection of reintroduced Texas Horned Lizards (*Phrynosoma cornutum*). Texas State University. Committee member.

Gold, Brian (M.Sc. 2017). Tick load in ground dwelling avian hosts from disturbed and sylvan habitats in Eastern Texas. Texas State University. **Chair**.

Ott, Silas (M.Sc. 2017). Distribution of the Texas kangaroo rat (*Dipodomys elator*) in Texas, with comments on microhabitat, habitat, and habitat modeling. Texas State University. Committee member.

Solis, Gabriela (M.Sc. 2017). Alternative splicing in the superkdf sodium channel mutation in pyrethroid-resistance horn fly *Haematobia irritans*. Texas State University. **Co-Chair.**

Westrich, Bradford (M.Sc. 2017). Prevalence of *Ixodes scapularis* ticks in mesocarnivores and small mammals from disturbed and sylvan habitats in Eastern Texas. Texas State University. **Chair**.

Bliss, Laura (M.Sc. 2016). Habitat Availability Assessment for the Gulf Coast Kangaroo Rat (*Dipodomys compactus*) in South-Central Texas. Texas State University. Committee member.

Jenkerson, Jeffrey (M.Sc. 2016). Patch occupancy and abundance of the crevice Spiny Lizard (*Sceloporus poinsetti*) in the Central Mineral Region of Texas. Texas State University. Committee member.

Benavidez, Michelle (M.Sc. 2016). Potential role of the invasive mongoose and commensal rodents as *Leptospira* reservoirs in Puerto Rico. Texas State University. **Chair**.

Aleman, Adriana (M.Sc. 2015). The prevalence of *Trypanosoma cruzi*, the causal agent of Chagas disease, detected in rodent host populations in Texas. Texas State University. Committee member.

DiGiacomo, Lorissa (M.Sc. 2015). Resource use by Cliff Swallows (*Petrochelydon pyrrhonota*) and Cave Swallows (*Petrochelidon fulva*) during the breeding season. Texas State University. **Co-Chair**.

Gonzales-Padron, Shiara (M.Sc. 2014). Hantavirus seroprevalence comparison in rodents along a disturbance gradient. Universidad Nacional Autónoma de México. External Committee member.

Hernandez, Jaqueline (M.Sc. 2014). Assessing fecal contamination at bridges in different streams in Central Texas with and without potential runoff. Texas State University. Committee member.

Huston, Daniel (M.Sc. 2014). Effects of an invasive trematode on two Texas native fish species. Texas State University. Committee member.

Maikis, Troy (M.Sc. 2014). Detection of *Borrelia burgdorferi sensu lato* infection in rodents from disturbed and sylvan assemblages across Texas. Texas State University. **Chair**.

Miller, Stephanie (M.Sc. 2014). Species-specific traits versus site-specific properties as factors influencing the abundances of species. Texas State University. Committee member.

Orsak, Benjamin (M.Sc. 2014). Impacts of bridge design and land cover characteristics on Cliff Swallow nesting. Texas State University. **Co-Chair**.

Uthuppuru, Susan (M.Sc. 2013). Size and density of a terrestrial gastropod along an elevational gradient. Texas State University. **Chair**.

Peter Shepherd (M.Sc. 2013). Non-thesis MSc program student. Texas State University. **Chair** of exit committee.

Villamizar-Gomez, Andrea (M.Sc. 2013). Prevalence of *Batrachochytrium dendrobatridis* in amphibian populations of central Texas. Texas State University. Committee member.

Armando Marines Muñoz (M.Sc. 2012). Evaluation of compaction, sustainability, and durability of pervious concrete mixes. Texas State University. Committee member.

Julio Cesar Arriaga Flores (M.Sc. 2012). Global evaluation of metacommunity structure of bats along elevational gradients. Instituto Tecnológico de Ciudad Victoria, Tamaulipas, México. **Co-Chair**.

D. Courses Prepared and Curriculum Development:

BIO7414. Ecology of Infectious Diseases in Wildlife (taught for the first time at Texas State University in Spring 2012).
BIO4351H-5324. Conservation of Large Mammals (developed to be part of my Study in America program, first offered summer 2018).

E. Funded External Teaching Grants and Contracts:

N/A

F. Submitted, but not Funded, External Teaching Grants and Contracts:

N/A

G. Funded Internal Teaching Grants and Contracts:

N/A

H. Submitted, but not Funded, Internal Teaching Grants and Contracts:

N/A

I. Other:

MENTORING/HOSTING INTERNATIONAL SCHOLARS/VISITORS

2013-2014 Mentor of Hao Meng, PhD student from Hebei Normal University. Mr. Meng came to my laboratory as a visiting scholar funded by the Chinese Scholarship Council.

MENTORING OF UNDERGRADUATE STUDENT RESEARCH

2020 Mentor of Valeria Reyna and Ruben Garza for the summer internship as part of the SURE (STEM Undergraduate Research Experience) program organized by the University College with funding from the US Department of Education.

2019. Mentor of Brittany Myrhang for the summer internship as part of the SURE (STEM Undergraduate Research Experience) program organized by the University College with funding from the US Department of Education.

2018. Mentor of Danielle Cordani for the summer internship as part of the SURE (STEM Undergraduate Research Experience) program organized by the University College with funding from the US Department of Education.

2017. Mentor of Kristin Dyer and Karina Salinas for the summer internship as part of the SURE (STEM Undergraduate Research Experience) program organized by the University College with funding from the US Department of Education.

2014. Mentor of Candice Rodriguez and Daisy Garcia (TSU-Biology) summer internships as part of their participation in the USDA-FATE program (TSU-Ag. Dept). Candice presented her work at the Agri-Science Education for the 21st Century Symposium at Florida International University, Miami, Florida.

2013. Mentor of Candice Rodriguez (TSU-Biology) and Jennifer Lopez (TSU-Geography) summer internships as part of their participation in the USDA-FATE program (TSU-Ag Dept). Both presented their work at the 2nd Symposium on Agriculture and Related Sciences, CETARS-USDA, Mayaguez, Puerto Rico.

HELPING STUDENTS OBTAIN SUPPORT

2016 Candice Rodriguez (MSc) obtained a MS fellowship ($25K/2 years) through a USDA funded program (TSU-Ag Dept).

2015-2016 Sara Weaver (PhD) received multiple awards including the Texas State Graduate College Merrick Doctoral Merit Fellowship ($9,000), Houston Safari Club Dan L. Duncan Scholarship ($6,000), Texas Chapter of the Wildlife Society Scholarship ($1,500), Texas State Biology Department Durrenberger Scholarship for Women in Science ($1500) and the Howard Schulze Biology Scholarship ($500).

2014-2015 Kathryn Michelle Benavides obtained a MS fellowship through the USDA-FATE program (TSU-Ag Dept).

2013-2014 Matt Milholland (PhD) was granted the Houston Safari Club Dan L. Duncan Scholarship ($10 K).

2013 Matt Milholland (PhD, $1.5 K) and Troy Maikis (MSc, $1 K) obtained Scholarships from the Deer Breeder Corp.

III. SCHOLARLY/CREATIVE

A. Works in Print

1. Books (if not refereed, please indicate)

N/A

a. Scholarly Monographs:

N/A

b. Textbooks:

N/A

c. Edited Books:

N/A

d. Chapters in Books:

Arriaga Flores, J.C., A. Moreno Valdez, **I. Castro Arellano**, E.R. Rodríguez Ruíz, Á. Rodríguez Moreno y C.S. Venegas Barrera. 2023. Murciélagos. In: La biodiversidad en Tamaulipas. Estudio de Estado. Vol. ii. Conabio, México, pp. 452-462.

Natural history monographs for 35 mexican mammal species published in: Ceballos, G. (editor). 2014. Mammals of Mexico. John Hopkins University Press. Baltimore, Maryland. The authored species monographs are:

Didelphimorphia
- *Philander opossum.* Pp. 80-82.

Rodentia
- *Otospermophilus atricapillus.* Pp. 166-167.
- *Heteromys desmarestianus.* Pp. 209-211.
- *Chaetodipus fallax.* Pp. 226-227.
- *Chaetodipus goldmani.* Pp. 228-229.
- *Chaetodipus intermedius.* Pp. 230-231.
- *Chaetodipus penicillatus.* Pp. 234-235.
- *Chaetodipus pernix.* Pp. 235-236.
- *Cratogeomys castanops.* Pp. 246.
- *Thomomys bottae.* Pp. 265-267.
- *Thomomys umbrinus.* Pp. 267-269.
- *Oligoryzomys fulvescens.* Pp. 320-321.
- *Oryzomys nelsoni.* Pp. 332-333.
- *Peromyscus hooperi.* Pp. 363-364.
- *Peromyscus melanocarpus.* Pp. 375-376.
- *Peromyscus melanurus.* Pp. 379-380.
- *Peromyscus perfulvus.* Pp. 388-390.
- *Peromyscus polius.* Pp. 390-391.
- *Peromyscus spicilegus.* Pp. 397-398.

Insectivora
- *Cryptotis mexicana.* Pp. 459-460.
- *Cryptotis parva.* Pp. 462-463.
- *Sorex milleri.* Pp. 478.
- *Sorex oreopolus.* Pp. 480.
- *Sorex sclateri.* Pp. 484-485.
- *Sorex stizodon.* Pp. 485-486.
- *Sorex ventralis.* Pp. 486-487.
- *Scalopus aquaticus.* Pp. 491-492.
- *Scapanus latimanus.* Pp. 494-495.

Chiroptera
- *Peropteryx kappleri.* Pp. 673-674.
- *Peropteryx macrotis.* Pp. 674-675.
- *Noctilio albiventris.* Pp. 751-752.
- *Noctilio leporinus.* Pp. 752-754.
- *Molossus aztecus.* Pp. 767-768.
- *Molossus molossus.* Pp. 769-770.
- *Molossus rufus.* Pp. 770-771.

Natural history monographs for 40 Mexican mammal species published in: Ceballos, G. and G. Oliva (editors). 2005. Los mamíferos silvestres de México. Comisión Nacional para el Conocimiento y Uso de la Biodiversidad y Fondo de Cultura Económica. México. The authored species monographs are:

Didelphimorphia
- *Philander opossum.* Pp. 111-113.

Insectivora
- *Cryptotis mexicana.* Pp. 133.
- *Cryptotis parva.* Pp. 135-137.
- *Sorex arizonae.* Pp. 143.
- *Sorex milleri.* Pp. 146-147.
- *Sorex oreopolus.* Pp. 148.
- *Sorex saussurei.* Pp. 150-151.
- *Sorex sclateri.* Pp. 151.
- *Sorex stizodon.* Pp. 152.
- *Sorex ventralis.* Pp. 152-153.
- *Sorex veraepacis.* Pp. 153-154.
- *Scalopus aquaticus.* Pp. 155-156.
- *Scapanus latimanus.* Pp. 158-159.

Rodentia
- *Spermophilus atricapillus.* Pp. 562-563.
- *Cratogeomys gymnurus.* Pp. 569-570.
- *Cratogeomys castanops.* Pp. 585-586.
- *Thomomys bottae.* Pp. 606-607.
- *Thomomys umbrinus.* Pp. 608-609.
- *Heteromys desmarestianus.* Pp. 624-625.
- *Chaetodipus fallax.* Pp. 639-640.
- *Chaetodipus goldmani.* Pp. 641-642.
- *Chaetodipus intermedius.* Pp. 643-644.
- *Chaetodipus penicillatus.* Pp. 646-647.
- *Chaetodipus pernix.* Pp. 647-648.
- *Peromyscus hooperi.* Pp. 740-741.
- *Peromyscus melanocarpus.* Pp. 752-753.
- *Peromyscus melanurus.* Pp. 757.
- *Peromyscus perfulvus.* Pp. 764-765.
- *Peromyscus polius.* Pp. 766.
- *Peromyscus spicilegus.* Pp. 771-772.
- *Oligoryzomys fulvescens.* Pp. 703-704.
- *Oryzomys nelsoni.* Pp. 712-713.

Chiroptera
- *Peropteryx kappleri.* Pp. 167.
- *Peropteryx macrotis.* Pp. 168-169.
- *Noctilio albiventris.* Pp. 173-174.
- *Noctilio leporinus.* Pp. 174-177.
- *Molossus aztecus.* Pp. 322.
- *Molossus molossus.* Pp. 324.
- *Molossus rufus.* Pp 325

e. Creative Books:

N/A

2. Articles

a. Refereed Journal Articles: (underlined when author is student/former student, * when I fulfilled the role of contact author). List includes authored IUCN Red List threatened species conservation assessments (peer reviewed, online-only, appear as "Encyclopedia entries" in faculty qualifications).

PRINTED / IN PRESS / ACCEPTED

1) Guevara, L., **I. Castro-Arellano,** and A.L Villalba Almendra. 2026. *Casiomys guerrerensis*. The IUCN Red List of Threatened Species 2026: **Volume # and doi pending.**

2) Guevara López, L., **I. Castro-Arellano**, and N. Stevens. 2026. *Cryptotis alticola*. The IUCN Red List of Threatened Species 2026: **Volume # and doi pending.**

3) **Castro-Arellano, I.** 2026. *Cynomys mexicanus*. The IUCN Red List of Threatened Species 2026: **Volume # and doi pending.**

4) **Castro-Arellano, I.** and A. Cuaron. 2026. *Dasyprocta mexicana*. The IUCN Red List of Threatened Species 2026: **Volume # and doi pending.**

5) **Castro-Arellano, I.** 2026. *Habromys delicatulus*. The IUCN Red List of Threatened Species 2026: **Volume # and doi pending.**

6) Guevara, L., and **I. Castro-Arellano.** 2026. *Casiomys chapmani*. The IUCN Red List of Threatened Species 2026: **Volume # and doi pending.**

7) Guevara, L., **I. Castro-Arellano,** and A.L Villalba Almendra. 2026. *Casiomys rhabdops*. The IUCN Red List of Threatened Species 2026: **Volume # and doi pending.**

8) **Castro-Arellano, I.** 2026. *Peromyscus furvus*. The IUCN Red List of Threatened Species 2026: **Volume # and doi pending. This is a re-assessment of the evaluation I authored in 2016.**

9) **Castro-Arellano, I.** and S.T. Álvarez-Castañeda. 2026. *Peromyscus ochraventer*. The IUCN Red List of Threatened Species 2026: **Volume # and doi pending.**

10) **Castro-Arellano, I.** 2026. *Reithrodontomys burti*. The IUCN Red List of Threatened Species 2026: **Volume # and doi pending. This is a re-assessment of the evaluation I co-authored in 2019.**

11) **Castro-Arellano, I.** 2026. *Reithrodontomys hirsutus*. The IUCN Red List of Threatened Species 2026: **Volume # and doi pending.**

12) **Castro-Arellano, I.** 2026. *Reithrodontomys tenuirostris*. The IUCN Red List of Threatened Species 2026: **Volume # and doi pending.**

13) **Castro-Arellano, I.** 2026. *Rheomys thomasi.* The IUCN Red List of Threatened Species 2026: **Volume # and doi pending.**

14) **Castro-Arellano, I.** 2026. *Sciurus arizonensis.* The IUCN Red List of Threatened Species 2026: **Volume # and doi pending. This is a re-assessment of the evaluation I co-authored in 2019.**

15) **Castro-Arellano, I.** 2026. *Sigmodon alleni.* The IUCN Red List of Threatened Species 2026: **Volume # and doi pending.**

16) **Castro-Arellano, I.** 2026. *Sorex ixtlanensis.* The IUCN Red List of Threatened Species 2026: **Volume # and doi pending. This is a re-assessment of the evaluation I co-authored in 2019.**

17) **Castro-Arellano, I.** 2026. *Sorex macrodon.* The IUCN Red List of Threatened Species 2026: **Volume # and doi pending.**

18) **Castro-Arellano, I.** 2026. *Sorex milleri.* The IUCN Red List of Threatened Species 2026: **Volume # and doi pending.**

19) Brigit R., …. **I. Castro-Arellano,** B.T. McElligot, T. Velasquez-Roa ... W. McShea. SNAPSHOT USA 2024: Year 6 of the coordinated national camera trap survey of the United States. Global Ecology and Biogeography. **Accepted pending minor revisions.** ***This contribution has an extensive author list so only first author, senior author, graduate students from my lab and I are included here.***

20) Brigit R., …. **I. Castro-Arellano,** B.M. Mena, B. Klossing ….. W. McShea. 2025. SNAPSHOT USA 2019-2023: The first five years of data from a coordinated national camera trap survey of the United States. Global Ecology and Biogeography 34:e13941 Https://doi.org/10.1111/geb.13941 ***This contribution has an extensive author list so only first author, senior author, graduate students from my lab and I are included here.***

21) Paul, D.L., …. **I. Castro-Arellano**, … P.S. Soltis. 2025. Harnessing Natural History Collections for Collaborative Pandemic Preparedness. BioScience biaf035. https://doi.org/10.1093/biosci/biaf035 ***This contribution has an extensive author list so only first author, senior author and I are listed here.***

22) Tietjen M., M. D. Esteve-Gasent, **I. Castro-Arellano**, A. Y. Li, and R. F. Medina. 2025. Lack of host-associated differentiation in *Ixodes scapularis* (Acari: Ixodidae). Entomologia Experimentalis et Applicata 173: 183-191. Https://doi.org/10.1111/eea.13533

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SUBMITTED, COMPLETED DRAFT, IN PREP.

Velasquez-Roa, T., M.A. Hurtado Materon, A.L. Robles-Fernández, and **I. Castro-Arellano**. Rosario, an algorithm to analyze cyclical data in Ecology. Submitted to Biodiversity Data Journal.

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Klossing B., **I. Castro-Arellano**, J. Camacho, C. Cooper, A. Norris, K. Pearson, S. Périquet-Pearce, and J. Stacy-Dawes J. Do introduced gemsbok follow the same clock? Challenging temporal niche conservatism across continents. Completed manuscript for Journal Oryx. Submission Feb 2026.

Kays, R., ……. **I. Castro-Arellano**, T. Velasquez-Roa,…… W. McShea. Snapshot Global: a collaborative and coordinated camera-trap network for wildlife monitoring. Draft for submission to Journal of Mammalogy. Submission Feb/March 2026. ***This contribution has an extensive author list so only first author, senior author, graduate students from my lab and I are included here.***

Weaver S., N. Durish, **I. Castro-Arellano**, A. Hale, and C. Hein. Bat fatalities at a Texas wind energy facility are predicted by weather and acoustic activity. Draft for submission to Journal of Mammalogy.

Peña, T., D. G. Huffman, **I. Castro-Arellano**, and M. C. Green. Butorides herons, floating vegetation, and topminnows: An ecospatial nexus where heterophyid spillover from invasion of Melanoides tuberculate can get amplified from nuisance enzootic to crisis epizootic. Draft for submission to PLOS Neglected Tropical Diseases.

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b. Non-refereed Articles:

3. Abstracts:

N/A

4. Reports:

Veech, J., Milholland, M., Ott, S., Simpson, R., and Castro-Arellano, I. 2018. The next phase of Texas kangaroo rat research: dispersal, fine-scale movement, habitat management, and initiation of a captive population. Final project report for Grant TX E-195-R-1, TPWD and USFWS, 25 pp.

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5. Book Reviews:

N/A

6. Other:

N/A

B. Works not in Print

1. Papers Presented at Professional Meetings:

2025. Monitoring Mammal Diversity in Suburban Forests: Snapshot USA at Purgatory Creek Natural Area, San Marcos, Texas. Living Data Conference. Bogota, Colombia. October 21-24th.

2025. Living by the clock: body mass of African ungulates determines temporal niche conservatism. 104th Annual Meeting of the American Society of Mammalogists. Purdue University, West Lafayette, IN. June 27th - July 1st.

2025. Towards a temporal theory of ecology: body mass influence on North American ungulate activity patterns. 104th Annual Meeting of the American Society of Mammalogists. Purdue University, West Lafayette, IN. June 27th - July 1st.

2025. Do introduced gemsbok follow the same clock? Challenging temporal niche conservatism across continents. 104th Annual Meeting of the American Society of Mammalogists. Purdue University, West Lafayette, IN. June 27th - July 1st.

2025. Intraspecific diel temporal niche conservatism in African ungulates: ecological and evolutionary implications. 42st Annual Meeting of the Texas Society of Mammalogists. Texas Tech University Center, Junction, TX. February 14-16th.

2025. Intraspecific diel temporal niche conservatism in Asian euungulates: insights for ecology and evolution. 42st Annual Meeting of the Texas Society of Mammalogists. Texas Tech University Center, Junction, TX. February 14-16th.

2025. The evolutionary and ecological constraints on north American artiodactyl activity patterns. 42st Annual Meeting of the Texas Society of Mammalogists. Texas Tech University Center, Junction, TX. February 14-16th. ***This presentation led by a MS student at my lab was awarded the Robert Packard award for best overall oral presentation.***

2025. Bats and carnivores in the neotropics: a comparative review of their activity patterns. 42st Annual Meeting of the Texas Society of Mammalogists. Texas Tech University Center, Junction, TX. February 14-16th.

2025. Temporal niche conservatism: body mass and diel activity patterns of neotropical rodents. 42st Annual Meeting of the Texas Society of Mammalogists. Texas Tech University Center, Junction, TX. February 14-16th.

2024. Intraespecific diel temporal niche conservatism in Asian euungulates: ecological, evolutionary, and conservation implications. 103rd Annual Meeting of the American Society of Mammalogists. University of Colorado, Boulder, CO. June 7-11th.

2024. Temporal insights: understanding body mass and activity patterns in large neotropical rodents. 103rd Annual Meeting of the American Society of Mammalogists. University of Colorado, Boulder, CO. June 7-11th.

2024. Implications of intraspecific diel temporal niche conservatism in African euungulates. 103rd Annual Meeting of the American Society of Mammalogists. University of Colorado, Boulder, CO. June 7-11th.

2024. Using camera traps to determine exposure of mammalian hosts to *Ornithodoros turicata* in cave habitats. 103rd Annual Meeting of the American Society of Mammalogists. University of Colorado, Boulder, CO. June 7-11th.

2024. Intraspecific diel temporal niche conservatism and assemblage wide overlap in neotropical bats. Ecological Integration Symposium, Texas A&M University, College Station, TX. April 4-5th.

2024. Contrast of diel activity patterns versus body mass in Asian euungulates: ecological, evolutionary, and conservation implications. Ecological Integration Symposium, Texas A&M University, College Station, TX. April 4-5th.

2024. Towards and temporal theory of ecology: the role of body mass for activity budgets of North American Artiodactyls. Ecological Integration Symposium, Texas A&M University, College Station, TX. April 4-5th.

2024. Investigating variation in cave habitat use among mammal species in response to soft tick abundance. Ecological Integration Symposium, Texas A&M University, College Station, TX. April 4-5th.

2024. Diel activity: exploring temporal niche conservatism in African euungulates and its ecological implications. Ecological Integration Symposium, Texas A&M University, College Station, TX. April 4-5th.

2024. Exploring time: unraveling the relationship between body mass and activity patterns in neotropical large rodents. 41st Annual Meeting of the Texas Society of Mammalogists. Texas Tech University Center, Junction, TX. February 16-18th.

2024. Temporal niche conservatism and community overlap in neotropical bat populations. 41st Annual Meeting of the Texas Society of Mammalogists. Texas Tech University Center, Junction, TX. February 16-18th.

2024. Temporal niche of mesocarnivores in relation to canopy cover along urban-rural gradients across USA. 41st Annual Meeting of the Texas Society of Mammalogists. Texas Tech University Center, Junction, TX. February 16-18th.

2024. Do Asian ungulates conserve temporal niches? Ecological, evolutionary, and conservation implications. 41st Annual Meeting of the Texas Society of Mammalogists. Texas Tech University Center, Junction, TX. February 16-18th.

2024. Ecology and evolutionary implications of diel temporal niche conservatism in African Euungulates. 41st Annual Meeting of the Texas Society of Mammalogists. Texas Tech University Center, Junction, TX. February 16-18th.

2024. The role of body size for activity budgets of artiodactyls native to North America. 41st Annual Meeting of the Texas Society of Mammalogists. Texas Tech University Center, Junction, TX. February 16-18th.

2024. SARS-CoV2 in wildlife: unforeseen implications and complexities? 41st Annual Meeting of the Texas Society of Mammalogists. Texas Tech University Center, Junction, TX. February 16-18th.

2024. Ascertaining differential use of cave habitats by mammal species based on soft tick abundance. 41st Annual Meeting of the Texas Society of Mammalogists. Texas Tech University Center, Junction, TX. February 16-18th.

2023. Evidence for intraspecific niche conservatism in Tapiridae and Felidae species in the Neotropics. 23rd Annual Texas A&M Ecological Integration Symposium. College Station, Texas. March 29th-31st.

2023. Evidence for temporal partitioning in two wild suid species in the Neotropics. 23rd Annual Texas A&M Ecological Integration Symposium. College Station, Texas. March 29th-31st.

2023. Sars Cov-2 in mammal species across the globe. 23rd Annual Texas A&M Ecological Integration Symposium. College Station, Texas. March 29th-31st.

2023. Activity levels related to lunar brightness and diel activity patterns of Tapiridae and Felidae species across neotropical sites. 41st Annual Meeting of the Texas Society of Mammalogists. Texas Tech University Center, Junction, TX. February 10-12th. ***This presentation led by a MS at my lab was awarded the Robert Packard award for best overall oral presentation.***

2022. Community structure in a countryside – testing predictions from island biogeography vs. habitat amount hypotheses. 101th Annual Meeting of the American Society of Mammalogists. Tucson, Arizona. June 17th-21st.

2021. Mitigating disease risks by analyzing activity patterns of wildlife. 100th Annual Meeting of the American Society of Mammalogists. Virtual meeting. June 14th–18th.

2021. Temporal partitioning between two Neotropical peccary species. 100th Annual Meeting of the American Society of Mammalogists. Virtual meeting. June 14th–18th.

2020. Analysis of landscape variables impacting pathogen presence in medium and small sized mammals. 38th Annual Meeting of the Texas Society of Mammalogists. Texas Tech University Center, Junction, TX. February 9-11th.

2020. Behavioral analysis of bats at a south Texas wind energy facility using thermal cameras and acoustic detectors. 38th Annual Meeting of the Texas Society of Mammalogists. Texas Tech University Center, Junction, TX. February 9-11th.

2019. Ultrasonic acoustic deterrents reduce bat fatalities at wind turbines in south Texas. Conference on Wind Energy and Wildlife, Stirling, Scotland. August 27th–30th.

2019. Acoustic activity of *Tadarida brasiliensis* during fall at wind turbines in south Texas. doi.org/10.1093/jmammal/gyab133

2019. Using stable isotopes to assess range and dietary shifts of an important insectivorous predator, the Brazilian free-tailed bat (*Tadarida brasiliensis*). 99th Annual Meeting of the American Society of Mammalogists, Washington, D.C. June 28th–July 2nd.

2019. Estimating bat fatalities at a wind energy facility in Texas: implications transcending the U.S.-Mexico border. 99th Annual Meeting of the American Society of Mammalogists, Washington, D.C. June 28th–July 2nd.

2019. Ultrasonic acoustic deterrents reduce bat fatalities at wind turbines in south Texas. 99th Annual Meeting of the American Society of Mammalogists, Washington, D.C. June 28th–July 2nd.

2019. Determining vertebrate host communities of a relapsing fever vector (*Ornithodoros turicata*) in Central TX. 99th Annual Meeting of the American Society of Mammalogists. Washington D.C. June 28th- July 02.

2019. Microhabitat use by the Texas kangaroo rat along roadsides dominated by cropland. 99th Annual Meeting of the American Society of Mammalogists. Washington D.C. June 28th- July 02.

2019. Ultrasonic acoustic deterrents reduce bat fatalities at wind turbines in south Texas. American Wind Energy Associations Wind Power Conference, Houston, Texas. June 1st–4th.

2019. Ultrasonic acoustic deterrents reduce bat fatalities at wind turbines in south Texas. 55th Annual Meeting of the Texas Chapter of The Wildlife Society, Montgomery, Texas. February 20th–23rd. ***This presentation led by a PhD student at my lab was awarded 1st place in Clarence Cottam Award competition***.

2019. Fine scale movement of the Texas kangaroo rat along roadsides dominated by cropland. 55th Annual Meeting of the Texas Chapter of The Wildlife Society, Montgomery, Texas. February 20th–23rd.

2019. The host community ecology of a tick-borne relapsing fever vector. 37th Annual Meeting of the Texas Society of Mammalogists. Texas Tech University Center, Junction, TX. February 8-10th.

2019. Possible hosts for *Ornithodoros turicata*, a relapsing fever vector in Central Texas. Women in Science and Engineering Conference. Texas State University, San Marcos, TX. *This presentation led by a MS student at my lab was awarded 1st place in poster competition.*

2019. Determining a Possible Host Community for *Ornithodoros turicata*, a tick-borne relapsing fever vector in Central Texas. 3rd International Conference on Relapsing Fever. New Braunfels, TX. March 31st- April 3rd.

2018. Testing ultrasonic acoustic deterrents for reducing bat fatalities at wind turbines in south Texas. Wind-Wildlife Conference, American Wind Wildlife Institute and National Wind Coordinating Collaborative Conference. St. Paul, Minnesota. November 27-30, 2018.

2018. Post-construction fatality monitoring at a wind energy facility in Starr County, Texas. 98th Annual Meeting of the American Society of Mammalogists. Manhattan, Kansas. June 25-29, 2018.

2018. Testing ultrasonic acoustic deterrents for reducing bat fatalities at wind turbines in south Texas. 65th Annual meeting of the Southwestern Association of Naturalists, San Marcos, TX. April 12-16, 2018.

2018. Species identity of hosts is more relevant than host richness regarding hantavirus prevalence at sites across Texas and Mexico. 65th Annual meeting of the Southwestern Association of Naturalists, San Marcos, TX. April 12-16, 2018.

2018. Activity patterns of Hantavirus infected cotton rats. 65th Annual meeting of the Southwestern Association of Naturalists. Texas State University, San Marcos, TX. April 12-16, 2018.

2018. Integrating host community ecology into disease ecology of tick-borne relapsing fever. 65th Annual meeting of the Southwestern Association of Naturalists, San Marcos, TX. April 12-16, 2018.

2018. Modeling potential habitat throughout the historic range of the Texas Kangaroo Rat. 65th Annual meeting of the Southwestern Association of Naturalists, San Marcos, TX. April 12-16, 2018.

2018. Testing ultrasonic acoustic deterrents for reducing bat fatalities at wind turbines in south Texas. Women in Science and Engineering Conference, San Marcos, Texas. March 2, 2018. ***This presentation led by a PhD student at my lab was awarded 1st place in poster competition***.

2018. Potential effects of Hantavirus on activity patterns of *Sigmodon hispidus*. Women in Science and Engineering Conference, San Marcos, Texas. March 2, 2018.

2018. Testing ultrasonic acoustic deterrents for reducing bat fatalities at wind turbines in south Texas. 54th Annual Meeting of the Texas Chapter of the Wildlife Society. Dallas, Texas. February 8-11, 2018. ***This presentation led by a PhD student at my lab was awarded 1st place in poster competition.***

2018. Potential effects of Hantavirus on activity patterns of *Sigmodon hispidus*. 54th Annual Meeting of the Texas Chapter of the Wildlife Society. Dallas, Texas. February 8-11, 2018.

2018. Comparing the behavior, ecology, and host-associations of *Ixodes scapularis* between regions with low and high Lyme disease prevalence. Program Symposium: Crossing Borders for a Healthier Tomorrow: the Role of Entomology in the One Health Initiative. Entomological Society of America Annual Meeting. Vancouver, British Columbia, Canada. Nov 11-14.

2018. Activity patterns of hantavirus infected cotton rats. 12thAnnual Undergraduate Research Conference. Texas State University, San Marcos, TX. ***This presentation led by an undergraduate summer intern at my lab was awarded 1st place in poster competition***.

2017. Potential effects of Hantavirus on activity patterns of *Sigmodon hispidus*. STEM Undergraduate Research Conference. Texas State University, San Marcos, TX.

2017. Assessing mammalian host use patterns of hard-bodied ticks and infection with Borrelia burgdorferi in Texas. 35th Annual Meeting, Texas Society of Mammalogists. Junction, Texas. February 10-11, 2017.

2017. Using soil associations to model potential habitat of the kangaroo rat. 53rd Annual Meeting of the Texas Chapter of the Wildlife Society. San Antonio, TX. February 17-19, 2017.

2017. Rodents, Hantaviruses, and the Long Road Ahead. 67thAnnual James Steele Conference on Diseases in Nature Transmissible to Man. Irving, Texas. 24-26 May 2017.

2017. Prevalence of hantaviruses in rodent assemblages from sylvan and disturbed habitats in Mexico and Texas. 97th Annual Meeting of the American Society of Mammalogists, Moscow, Idaho. June 20-24th, 2017.

2016. Population genetic structure of *Ixodes scapularis* questing at different heights. 25th International Congress of Entomology, Orlando, Florida. September 25-30, 2016.

2016. Prevalence of hantaviruses in rodent assemblages in from sylvan and disturbed habitats in Mexico and Texas. 63th Annual meeting of the Southwestern Association of Naturalists, México City, México. April 14-17, 2016.

2016. New records for Puerto Rico of endoparasitic helminths from the Small Indian Mongoose (*Herpestes auropunctatus*). 52ndAnnual Meeting of the Texas Chapter of the Wildlife Society, San Antonio, Texas. February 18-20, 2016.

2016. Role of small mammals as *Leptospira* reservoirs on Puerto Rican dairy farms. 52nd Annual Meeting of the Texas Chapter of the Wildlife Society, San Antonio, Texas. February 18-10, 2016.

2016. *Leptospira* prevalence in small mammals on Puerto Rican dairy farms. 63th Annual meeting of the Southwestern Association of Naturalists, México City, México. April 14-17, 2016.

2016. Investigation of potential avian and bat impacts at a proposed wind farm in South Texas. 52th Annual Meeting of the Texas Chapter of the Wildlife Society, San Antonio, Texas. February 18-19, 2016.

2016. Prevalence of endoparasitic helminths of the Small Indian Mongoose (*Herpestes auropunctatus*) on the island of Puerto Rico. Southwestern Association of Parasitologists. Lake Texoma, Oklahoma. April 14-16, 2016.

2015. Prevalence of *Trypanosoma cruzi*, the causal agent of Chagas disease, from wild rodent populations from Texas. 4th International Congress on Disease Ecology. Villahermosa, Tabasco, México. October 13-15, 2015.

2015. Integrated tick management to mitigate the impact of *Rhipicephalus microplus*, bovine babesiosis, and anaplasmosis in livestock farming systems of Puerto Rico. 14th International Symposium for Veterinary Epidemiology and Economics. Mérida, Yucatán, México. November 3-7, 2015.

2015. The potential role of wildlife reservoirs on *Leptospira* prevalence in Puerto Rico. 62nd Annual meeting of the Southwestern Association of Naturalists. San Diego, California. April 2-5, 2015.

2015. A macro ecological approach to emerging zoonotic pathogens: a key role for interspecies barriers examined by metacommunity and phylogenetic theories. 100th Ecological Society of America annual meeting. Baltimore, Maryland. August 9-14, 2015.

2015. Small Mammal Assemblage Structure Can Predict Hantavirus Seroprevalence Worldwide. 65th Annual James Steele Conference on Diseases in Nature Transmissible to Man. Galveston, Texas. May 20-22, 2015. ***Talk selected on a competitive basis and presenter was PhD student from my lab.***

2015. Metacommunity theory and infectious diseases. Empirical data at local and broader scales. 27th International Congress of the Society for Conservation Biology. Montpellier, France. August 2-6, 2015.

2015. Ecology and phylogenetic diversity of bats modulate their viral metacommunities. II Biennial Conference of the Latin American Wildlife Disease Association. Bogota, Colombia. September 24-27, 2015.

2015. Identifying ecological correlates of Hantavirus prevalence in small mammal assemblages worldwide. 33rd Annual Meeting from the Texas Society of Mammalogists. Junction, Texas. February 13-15, 2015.

2015. Assessment of invasive mongoose home range at farms with presence of cattle fever ticks in Puerto Rico. 33rd Annual Meeting from the Texas Society of Mammalogists. Junction, Texas. February 13-15, 2015.

2014. Tick prevalence from rodent assemblages at peridomestic and sylvan sites across Texas. 32nd Annual Meeting from the Texas Society of Mammalogists. Junction, Texas. February 14-16, 2015. ***Graduate student presenting won award for best graduate level oral presentation***.

2014. Preliminary comparison of Hantavirus seroprevalence in rodent assemblages from sylvan and peridomestic sites in Texas. 32nd Annual Meeting from the Texas Society of Mammalogists. Junction, Texas. February 14-16, 2014.

2014. Climate change, wildlife and the distribution of *Ixodes scapularis*, the Lyme disease vector tick, in the US-Mexico Transboundary region. 63rd Annual International Conference of the Wildlife Disease Association. Albuquerque, New Mexico. July 27-August 1st, 2014.

2014. Challenges with the southern cattle fever tick in Puerto Rico: then and now. 62nd Annual meeting of the Entomological Society of American. Portland, Oregon. November 16-19, 2014.

2013. Antibody seroprevalence of Hantavirus in rodents in mountain cloud forests at central Veracruz. 3rd International Congress on Disease Ecology. Yucatán, Mérida, México. November 20-23rd, 2013.

2013. Spatial and temporal distribution of *Borrelia burdorferi*, the agent for Lyme disease, across Texas. 3rd International Congress on Disease Ecology. Yucatán, Mérida, México. November 20-23rd, 2013.

2013. Current and future distribution of Lyme disease vector ticks in the Texas-México region. 3rd International Congress on Disease Ecology. Yucatán, Mérida, México. November 20-23rd, 2013.

2013. Diversidad y abundancia de reservorios de Hantavirus en un gradiente de perturbación en México. 3rd International Congress on Disease Ecology. Yucatán, Mérida, México. November 20-23rd, 2013.

2013. Distribution of *Borrelia burgdorferi* in humans, dogs and ticks in Southern USA. 13th International Conference on Lyme Borreliosis and other tick-borne diseases. Boston, Massachusetts. August 18-21, 2013.

2013. Spatial and Temporal distribution of Lyme disease infected ticks in the Texas-México border Region. 13th International Conference on Lyme Borreliosis and other tick-borne diseases. Boston, Massachusetts. August 18-21, 2013.

2012. Hantavirus presence at rodent assemblages from Northeastern and Central México. 62nd Annual James Steele Conference on Diseases in Nature Transmissible to Man. San Antonio, Texas. June 20-22nd, 2012. ***Talk selected for conference on a competitive basis***.

2012. Hantavirus ecology at rodent assemblages from northeastern México. First Conference in Subtropical Biology. Edinburg, Texas. February 20-22nd, 2012.

2011. Global evaluation of metacommunity structure of bats along elevational gradients. III Congreso Mexicano de Ecología. Sociedad Mexicana de Ecología. Boca del Rio, Veracruz, México. April 3-7, 2011.

2011. Elements of metacommunity structure of bird species over an elevational gradient in northwest México. III Congreso Mexicano de Ecología. Sociedad Mexicana de Ecología. Boca del Rio, Veracruz, México. April 3-7, 2011.

2010. Analysis of temporal niche overlap with null models and its application on mammalian ecology studies. X Congreso Nacional y I Congreso Latinoamericano de Mastozoología. Guanajuato, Guanajuato, México. September 20-24, 2010.

2010. Elements of metacommunity structure of small mammals along global elevational gradients. X Congreso Nacional y I Congreso Latinoamericano de Mastozoología. Guanajuato, Guanajuato, México. September 20-24, 2010.

2010. Metacommunity structure of small mammals along elevational gradients: a global assessment. Interdisciplinary studies on Global Climate Change and the Ecology and Management of Tropical Montane Ecosystems. Workshop organized by the Pan-American Advanced Studies Institute and funded by NSF. March 6-14th, 2010.

2007. Temporal niche overlap in a diverse Amazonian bat community. 87th Annual meeting of the American Society of Mammalogists, Albuquerque, New Mexico. June 6-10, 2010.

2007. Molecular evolutionary relationships among members of the *Reithrodontomys tenuirostris* species group. 87th Annual meeting of the American Society of Mammalogists, Albuquerque, New Mexico. June 6-10, 2010.

2007. Effects of reduced impact logging on bat biodiversity in terra firme forest of lowland Amazonia. 87th Annual meeting of the American Society of Mammalogists, Albuquerque, New Mexico. June 6-10, 2010.

2007. Community structure and species composition as determinants in Hantavirus prevalence in Tamaulipas, Mexico. 87th Annual meeting of the American Society of Mammalogists, Albuquerque, New Mexico. June 6-10, 2010.

2006. Efficiency of two hair trap designs to detect medium and large mammals. 86th Annual meeting of the American Society of Mammalogists, Amherst, Massachussets. June 18-21, 2006.

2005. Terrestrial and scansorial microhabitat use at two contrasting small mammal communities in subtropical Mexico. 85th Annual meeting of the American Society of Mammalogists, Springfield, Missouri. June 15-19th, 2005.

2004. Relevance of temporal niche dynamics for rodent community patterns at El Cielo Biosphere Reserve, Mexico. 41st Annual meeting of the Association of Tropical Biology and Conservation. Miami, Florida. July 12-15, 2004.

2002. Mammalian species density gradients in Africa. 43rd Annual Symposium of the British Ecological Society: Macroecology, reconciling divergent perspectives on large scale ecological patterns. Birmingham, United Kingdom. April 17-19, 2002.

2000. Diversity, endemism and endangerment patterns of the continental African mammals. 14th International Congress for Conservation Biology. Missoula, Montana. July23-27th, 2000.

1999. Patterns of distribution in the terrestrial mammals of Africa. 79th Annual Meeting of the American Society of Mammalogists. Seattle, Washington. June 20-24th, 1999.

2. Invited Talks, Lectures, Presentations:

2024 Invited seminar. The ecology of mammalian hosts as a crucial determinant to ascertain zoonotic pathogen prevalence. Museums and Emerging Pathogens in the Americas (MEPA) Network. Online, October 31st, 2024.

2024 Invited seminar. Wildlife management and conservation as a central element of a One Health approach to public health. Laudato Si' Environmental Science Speaker Series. Saint Mary's University. San Antonio, Texas, September 27th, 2024.

2024 Invited seminar. Activity patterns as mediators of wild mammal host interaction and its implications for pathogen transmission. Biology Department, Tarleton State University. Stephenville, Texas, April 2nd, 2024.

2023 Invited seminar. Rethinking time as a mediator of ecological interactions has implications from conservation to public health. Biology Department, University of South Florida. Tampa, Florida, April 13th, 2023.

2022. Keynote Speaker. NM State University at Symposium for a USDA funded project.

2021. Capstone talk. Impacts of wind energy on bats in southern Texas. Centro de investigación en Biodiversidad y conservación, Universidad Autónoma del Estado de Morelos, Morelos, México. April 28th, 2021.

2019. Seminar Speaker (Host related ecological factors affecting Hantavirus prevalence from global to local scales). Department of Environmental Sciences, Baylor University, Waco, TX. September 18th, 2019.

2017. Keynote Speaker. Anniversary of University Foundation. Universidad Autónoma del Estado de Morelos. September 9th, 2017.

2015. Keynote Speaker. 4th International Congress on Disease Ecology. Villahermosa, Tabasco, México. October 14, 2015.

2014. Invited Seminar. Department of Biology, Texas Lutheran University, Seguin, TX. February 21st, 2014.

2014. Invited Seminar. Department of Biology, Trinity University, San Antonio, TX. October 17th, 2014.

2013. Keynote speaker at the 3rd International Congress on Disease Ecology. Yucatan, Merida, México. November 22nd, 2013.

2012. Invited Talk. HSI Research Symposium. Texas State University. March 20th, 2013.

2012. Invited talk during Kika de la Garza Fellowship at USDA-ARS laboratory in Kerrville, TX. June 25th, 2012.

2011. Invited Seminar. Texas State University, San Marcos. March 30th, 2011.

2010. Invited Seminar and workshop. Instituto de Ecología, A.C. Xalapa, Veracruz, México. Null model assessment of assemblage-wide temporal niche overlap. June 14-15th, 2010.

2002. Guest lecturer for WFSC-624. Population ecology graduate class. Department of Wildlife and Fisheries Sciences, Texas A&M. October 15th, 2002.

3. Consultancies:

N/A

4. Workshops:

2010. Instituto de Ecología, A.C. Null model analysis of temporal niche overlap. June 14-15th, 2010.

2010. Interdisciplinary studies on Global Climate Change and the Ecology and Management of Tropical Montane Ecosystems. Presenter/participant. Workshop organized by the Pan-American Advanced Studies Institute and funded by NSF. March 6-14th, 2010.

5. Other:

C. Grants and Contracts

1. Funded External Grants and Contracts:

2024-2025 ($106,805). **Co-PI**. Texas Department of Transportation. Ascertaining best management practices for the roadside habitat of Texas kangaroo rats.

2022-2024 (€119,984.70). **External Co-PI**. Relación entre la biodiversidad y las prácticas socioculturales campesinas con el riesgo de enfermedades zoonóticas en poblaciones rurales de la Selva Maya: Oportunidades para la implementación de un programa Una-Salud para mejorar las condiciones de vida y la conservación biológica. Funded by the Mexico branch of Deutsche Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ).

2020-2022 (€1,000,000). **External advisor** for the proposal: Protecting human health through environmental protection in the Selva Maya: Healthy ecosystems, healthy lives submitted by the Deutsche Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ) and funded by the Federal Ministry of Economic Cooperation and Development of Germany (BMZ).

2021-2022 ($50,655). **Collaborator**. USFWS Endangered Species Candidate Conservation Funds. Estimating density and size of roadside populations of the Texas Kangaroo Rat.

2019-2023 ($499,988) **Co-PI**. Texas Parks and Wildlife State Wildlife Grants. Distribution and abundance of summer bats in TX. *Stepped down from Co-Pi role due to health reasons.*

2018 ($86,973) **Co-PI**. Texas Parks and Wildlife Section 6 Grants. The next phase of the Texas kangaroo rat research: dispersal, fine-scale movement, habitat management, and initiation of a captive population.

2017-2021 ($23,559). **PI.** United States Forest Service. Using stable isotopes to assess range and dietary shifts of an important insectivorous predator, the Brazilian Free-tailed Bat (*Tadarida brasiliensis*).

2016-2019 ($306,403) **PI**. Texas Parks and Wildlife State Wildlife Grants. Studying Behavior and Testing Strategies to Reduce Impact of Wind Energy on Bats in Texas.

2015-2016 ($69,717) **Co-PI**. Texas Parks and Wildlife State Wildlife Grants. Distribution of the Texas Kangaroo Rat (*Dipodomys elator*) in Texas.

2015-2017 ($386,463) **Co-PI**. NIH R21 (PA13-303). Population genetic structure of *Ixodes scapularis* and disease transmission. **$138,230 subaward** to Texas State University.

2014-2015 ($1,000,000). Research project for Integrated Control of the Southern Cattle Fever tick in Puerto Rico. Puerto Rico Department of Agriculture. **$101,793** for **Castro-Arellano** as **PI** for sub award project: Possible role of invasive *Herpestes javanicus* in sustaining cattle fever tick populations in Puerto Rico.

2012-2014 ($390,014) **Research Supervisor (PI)**. Texas Department of Transportation. Contribution of Bridge Dwelling Birds to Bacterial Quality Impairments.

2012-2015 ($130,000 aprox). **Co-PI** with Gerardo Suzan (PI). Consejo Nacional de Ciencia y Tecnologia (Mexico). Proyecto de ciencia básica #179482. Effect of diversity on the prevalence of zoonotic agents in wild rodents in northeastern Chihuahua.

2010-2012. ($24,000) **PI**. Texas A&M-CONACyT Collaborative Research Grant Program. Prevalence and characterization of Hantaviruses and Arenaviruses in wild and peridomestic settings of northeastern Mexico.

2010-2011 ($25,000) **PI.** New Professor Grant Program. Secretaria de Educación Publica (Mexico). Ecology of Hantavirus reservoir rodent species in northeastern Mexico.

2002 ($1,000) Grants in aid for research. American Society of Mammalogists.

2001 ($1,760) Theodore Roosevelt Memorial Fund research grant. American Museum of Natural History.

2000 ($2,117) Research grant. Chicago Zoological Society (Brookfield Zoo, Brookfield, Illinois).

2000 3 camera trap units (worth $1,400). Idea Wild (conservation NGO, Fort Collins, Colorado).

2. Submitted, but not Funded, External Grants and Contracts:

2025. ($3.6 MI). Supporting. GCR: AI4Biota: A Breakthrough Framework for AI-Driven Modeling of Biological Processes and Events in Natural Ecosystems. NSF

2018. ($806,186). Co-PI. Statewide Assessment of Tricolored Bats. Texas State Comptroller.

2017. ($272,531/ 3 years). Co-PI. Establishment of a Texas Kangaroo Rat population at Copper Breaks State Park. Texas Parks and Wildlife (Pittman-Robertson funds).

2016. ($391,206/ 3 years). Collaborator/mentor. REU in Global Change Ecology at the University of Texas Rio Grande Valley. NSF-REU program.

2016. ($72,250/2 years). Co-PI. Using vectors and reservoirs to assess endemic risk for Chagas disease in South Texas. Texas Department of Health Services.

2016. ($299,119/3 years). CO-PI. IDEALS for Undergraduates: Infectious Disease Ecology and Leadership Skills. NIFA-USDA.

2015. ($29,937/1 year). PI. Texas Parks and Wildlife (Conservation License Plate grants). Wildlife impacts from wind energy development in south Texas.

2015. ($209,062/4 years). PI. Texas Parks and Wildlife. *Pseudogymnoascus destructans* surveillance for early detection of White Nose Syndrome in Texas.

2014. ($82,146/2 years). Co-PI. State of Texas Comptroller Office. RFP No. 209f for Endangered Species Research Projects for the Texas Kangaroo Rat.

2013. ($295,969/3 years). Co-PI. NSF-Geography and Spatial Sciences Program. Pathogenic landscapes of arthropod borne pathogens in the Texas-Mexico transboundary regions: spatiotemporal and molecular patterns of Chagas and Lyme disease.

2013. ($417,000/3 years). Co-PI. NSF-ABI. EcoHelio: Weather data for ecological research.

2013. ($775,000/3 years). Collaborator. NSF. Integrating Biodiversity and Human Society with Ecological, Evolutionary, and Socioeconomic Processes in Texas.

2013. ($998,000/3 years). Co-PI. USDA-NIFA-AFRI. Effects of Climate Variability and Change on the Emergence and Re-emergence of High-Threat Diseases of Livestock in the United States.

2013. ($397,646/2 years). Co-PI. NIH (R21). Population genetic structure of *Ixodes scapularis* and disease transmission. Proposal got a score of 29, which is close to funding rate (23) so has been submitted again integrating comments from reviewers.

2013. ($250,000/2 years). Co-PI. NIH (R21). Tick microbiome as surveillance tools for emergence of tick-borne pathogens.

2012. ($500,000/2 years). Co-PI. National Center for Foreign Animal and Zoonotic Disease Defense. Foundational research for surveillance of Tick-borne emerging diseases along the Texas-Mexico border.

2012. (Pre-proposal). Co-PI. National Science Foundation, Division of Environmental Biology. A probabilistic model to predict the geographical spread of species.

2011. ($9,000). Co-PI. Morris Animal Foundation. Surveying ticks and wildlife in Texas for Lyme disease causing agent affecting domestic animals.

3. Funded Internal Grants and Contracts:

2025. ($16,000). **Co-PI**. Research Enhancement Program Grant. Texas State University. BioStream: Developing infrastructure for AI-driven wildlife monitoring.

2011. ($8,000). **PI**. Research Enhancement Program Grant. Texas State University. Tick-borne pathogens from rodents in the MX-US transboundary zone.

4. Submitted, but not Funded, Internal Grants and Contracts:

2019. ($16,000). Co-PI. Research Enhancement Program Grant. Texas State University. Estimating the total population size of an endangered kangaroo rat in north-central Texas

2018. ($16,000). Co-PI. Research Enhancement Program Grant. Texas State University. Habitat fragmentation by oil palm in Borneo.

2017. ($16,00). Co-PI. Research Enhancement Program Grant. Texas State University. Small mammals as bioindicators of sustainable development of a tropical agroforestry program in the rural Borneo highlands.

2014. ($8,000). PI. Research Enhancement Program Grant. Texas State University. Potential role of the invasive mongoose and commensal rodents as *Leptospira* reservoirs in Puerto Rico.

2015. ($8,000). PI. Research Enhancement Program Grant. Texas State University. Bat community structure contrast between sylvan and degraded habitats in south Kenya.

5. Pending Internal and External Grants and Contracts

D. Fellowships, Awards, Honors:

2024	Favorite Professor. Alpha Chi National College Honor Society. Texas State University.
2017	Presidential Distinction Award for Excellence in Scholarly/Creative Activities from the College of Science and Engineering, Texas State University.
2012	**E. Kika de la Garza Science Fellow**. United States Department of Agriculture. Hispanic Serving Institutions National Program.
2000	($200) Travel award. Society for Conservation Biology annual meeting.
2000 - 2004	($22,000 per annum) Fellowship from the Science and Technology Council of Mexico (CONACyT) for PhD at Texas A&M (tuition, stipend and health insurance).
1999 - 2005	($3,040) Travel awards from Texas A&M for talk and poster presentations at 6 scientific meetings.
1998-2000	($32,000) **Fulbright Fellowship** for MS at Texas A&M. Tuition, stipend and health insurance.
1998	($6,000) Encyclopedia Britannica award for MS tuition.
1997	Honorific mention of undergraduate thesis, UNAM.
1996	($1,200) Fellowship from Fundación UNAM (stipend).

1995 ($1,900 plus housing) REU award. National Museum of Natural History, Smithsonian Institution.

IV. SERVICE

A. University:

2025 Biology Department representative for the Research Enhancement Program. Division of Research, Texas State University.

2021-to date Member of the Advisory Council for the National Science Foundation (NSF) Partnership for Research and Education in Materials (PREM) Center for Intelligent Materials Assembly (CIMA) that is based in the Department of Chemistry and Biochemistry.

2017-to 2020. Member. Institutional Animal Care and Use Committee (IACUC).

2017-to 2022. Member of the Advisory Council for STEM Undergraduate Research Experience (SURE) program. University College, Texas State University.

2013-2016 Session Chair/Judge. International Research Conference for Graduate Students. Event organized by the Graduate College, Texas State University.

2013. Serve as Faculty Mentor in the H-LSAMP Scholars Program.

2012-2013 Interim Campus Director for the Institute for the Study of Invasive Species.

2013. Organizing committee. Hispanic Serving Institution Research Symposium.

2012. Judge/moderator for presentations at the International Research Conference for Graduate Students. Event organized by the Graduate College, Texas State University.

B. Departmental:

2026 to date **Chair**. Tracking Committee for microbiology assistant professor hired in 2025.

2025-2026 Committee member. Search committee for Wildlife Ecology Faculty position.

2024-2025 **Chair**. Search committee for Quantitative Ecologist Faculty position.

2024 to date Committee member. Randy Simpson Endowed Scholarship.

2024 to date Faculty advisor for the Graduate Student Association of the Biology Department at Texas State University. *I coordinated students in my professional development courses of 2023/2024 and together we created this university official organization.*

2024	Committee member. Instructional Faculty Appointment and Promotion Committee.
2024 to date	Member at large. Graduate Programs Committee.
2023	Member. Search committee for Evolutionary Ecologist faculty position.
2023	Member. Search committee for Wildlife Ecology faculty position.
2019-2022	Member. Diversity and Inclusion Committee. Biology Department, Texas State University.
2017-2018	Member. Search committee for Human Dimensions of Wildlife faculty position.
2017-2022	Member. Curriculum Committee. Biology Department, Texas State University.
2017-2018	Faculty advisor for Texas State Student Chapter of the Wildlife Society.
2017-2022	Program director for B.S. in Wildlife Biology.
2016-2017	Faculty co-advisor for Texas State Student Chapter of the Wildlife Society.
2016	Member. Search committee for Wildlife Biology faculty position.
2016	Judge for posters at the 21st Annual Department of Biology student Colloquium.
2015	Judge for posters at the 20th Annual Department of Biology student Colloquium.
2015-date	Chair of the selection committee for the John T. Baccus Outstanding Archivement Award in Wildlife Biology.
2015-2019	Chair of the selection committee for the Lamar and Marilynn Johanson Fellowship award.
2013-2014	Member. Search committee for microbiology faculty position.
2013-2014	Member. Search committee for stream ecology faculty position.
2013	Judge for the talks at the 18th Annual Department of Biology student Colloquium.
2012-2017	Member of the weekly Departmental seminar committee.

C. Community:

2017-2018	Elected vicepresident of HOA council board at the neighborhood where I live in San Marcos.
7/2016	Presentation about mammals and wildlife studies for the Boy Scouts Troop 18th, San Marcos, TX.

9/2015 Presentation about myths and facts about vampire bats with 3rd grade students from Crockett Elementary School in San Marcos, TX.

11/2012 Presentation and question/answer session about bats with 1st grade students from Spicewood Elementary School in Austin, TX.

D. Professional:

External manuscript reviewer for multiple journals with some examples being: Viruses, PLOS NTD, PLOS One, *Acta Theriologica, Biological Conservation*, *Biotropica*, *Community Ecology*, *EcoHealth*, *Ecological Applications*, *Ecology, Ecology and Evolution, Journal of Mammalogy*, *Journal of Tropical Ecology, Journal of Wildlife Management*, *Journal of Wildlife Diseases*, *Oecologia*, *Mastozoología Neotropical*, *Revista Chilena de Historia Natural*, *Revista Latinoamericana de Conservación*, *Revista Mexicana de Biodiversidad, Revista Mexicana de Mastozoologia, Southwestern Naturalist*, and *Western North American Naturalist.*

2025-2026 **President** for the Texas Society of Mammalogists.
2024 Member of the IDEA (Inclusion, Diversity, Equity, and Anti-Bias) Committee and the International Committee from the American Society of Mammalogists.
2024 External reviewer for Professional Accomplishments Evaluation Process of a senior scholar at the Smithsonian National Zoo and Conservation Biology Institute.
2024-date **Chair** of Human Diversity Committee of the Texas Society of Mammalogists.
2023 to date **Associate Editor**. Biología Integrativa y Conservación (uaem.mx). I form part of the inaugural Editorial Team for this recently created Open Access Journal.
2023 to date Member of the Conservation Committee, Texas Society of Mammalogists.
2021-date **Board Member (elected position)** of the Wildlife Diseases Working Group from the Wildlife Society. *In September 2023 I got re-elected for another 2-year term on this board.*
2019 External Reviewer for Tenure and Promotion for a faculty in wildlife program at the University of Michigan.
2018-date Associate Editor. Southwestern Naturalist.
2017 Member of the FY2017 1890 Capacity Building Grants (CBG) Teaching and Extension Peer Review Panel. National Institute of Food and Agriculture, U.S. Department of Agriculture.
2015 Member of the FY2015 1890 Capacity Building Grants (CBG) Teaching and Extension Peer Review Panel. National Institute of Food and Agriculture, U.S. Department of Agriculture.
2016-2020 Member of Editorial Committee for the Journal Veterinaria Mexico OA published by the Facultad de Medicina Veterinaria y Zootecnia from the National Autonomous University of Mexico, Mexico City, Mexico.
2017-date Member of the Scientific Committee for the journal Revista de Medicina Veterinaria published by the Universidad La Salle, Bogota, Colombia.
2014-date Member of the Small Mammal Specialist Group from the International Union for Conservation of Nature (**IUCN**). https://small-mammals.org/members/
2010 Reviewer for the **National Science Foundation** (Dissertation Improvement Grants).

2010	Member of the COTACyT review committee to evaluate applications for federal fellowships to study graduate degrees abroad (Biology/Chemistry division).
2008	Participated as a Mexican mammal expert in the **Global Mammal Assessment** Workshop organized by IUCN-World Conservation Union in Zamorano, Honduras. Aided assessment of conservation status of 150+ mammal species (http://www.iucnredlist.org/mammals).
2007– date	Associate editor. *Revista Mexicana de Mastozoología* (Mexican Mammalogy Journal).
2005- 2007	Member of the Conservation Committee of the American Society of Mammalogists.
2005 - 2010	Member of the International Relations Committee of the American Society of Mammalogists.
2000 - 2003	Co-chair of the Graduate Program Enhancement Fund (GPEF) Committee at the Department of Wildlife and Fisheries Sciences, Texas A&M.
1999 - 2003	Member of the GPEF committee at the Department of Wildlife and Fisheries Sciences, TAMU.
2002	Co-chair organizing Committee. Third Annual Ecological Integration Symposium: *Evolutionary Perspectives in Ecological Integration*. This symposium is multidisciplinary event completely run by graduate students at Texas A&M.
1999	Treasurer of the TAMU chapter of the Society for Conservation Biology.

E. Organizations

1. Honorary:

N/A

2. Professional:

Member of the following professional organizations:

American Society of Mammalogists.
Texas Society of Mammalogists.
Southwestern Association of Naturalists.
Asociación Mexicana de Mastozoología.
Asociación Mexicana de Medicina de la Conservación.
Sociedad Mexicana de Ecología.
The Wildlife Society.
Wildlife Disease Association.

F. Service Honors and Awards:
N/A