

Carlos E. Gonzalez – Gonzalez
Nau Endowed Assistant Professor in Habitat Management and Research

Carlos Eduardo Gonzalez Gonzalez

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Education

2015 - 2018	Texas A&M University Doctor of Philosophy Dissertation project: Desert Bighorn Sheep in Texas: Survival, Population Dynamics, and Habitat.	College Station, TX
2011- 2015	Sul Ross State University Master of Science Thesis project: Survival and nesting ecology of scaled quail in Trans-Pecos, Texas.	Alpine, TX
2007 - 2011	Texas A&M University–Kingsville Mayor in Range and Wildlife Management with Range Emphasis	Kingsville, TX

Relevant Course Work

- GIS, GPS, and Remote Sensing
- Interdisciplinary Geographical Information Systems
- Geographic Information System for Resource Management
- Rangeland Plants
- Range Improvements
- Grazing Management King Ranch Lectureship
- Gus T. Canales Prescribed Burning King Ranch Lectureship
- Landscape Ecology & Modeling
- Ecological Modeling
- Fire Ecology
- Ecology and Management of Large Mammals in North America
- Range & Wildlife Research Methods
- Statistics in Research I
- Statistics in Research II
- Biostatistical Analysis I
- Biostatistical Analysis II
- Population Dynamics
- Community Ecology
- Taxonomy
- Soil Morphology and Classification
- Wildlife and Ecology
- Human Dimensions Wildlife Conflicts

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- Equine Management
- Principles of Wildlife Management
- Principles of Range Management
- Principles of Soil Science

Work Experience

August 2018 – Present.

Research Scientist – Big Game

Borderlands Research Institute

Working with Master Degree candidates, technicians and volunteers coordinating efforts for Big Game research presently going for the Borderlands Research Institute.

June 2013 – December 2013.

Field Coordinator of the Desert Quail Program

Borderlands Research Institute

Working with Master Degree candidates, technicians and volunteers coordinating efforts for all quail research presently going for the Borderlands Research Institute. Under the supervision of Dr. Ryan Luna.

June 2008 – May 2011

Wildlife Research Technician

Caesar Kleberg Wildlife Research Institute

Work on the “Faith- Comanche” Deer project under the supervision of Dr. Timothy E. Fulbright and Dr. David Hewitt. Duties include: Soil sampling, vegetation transects, vegetation sampling, protein feeder’s maintenance, predator control, forage analysis.

August – December 2007

Wildlife Research Technician volunteer

Caesar Kleberg Wildlife Research Institute

Worked as a volunteer on the “Reestablishment of herbaceous native vegetation on a mixed shrub community in south Texas” project under the supervision of Dr. J. Alfonso Ortega. Duties include: vegetation sampling and vegetation transects.

Oversight

To ensure the Nau Endowed Professor in Habitat Management and Research is adequately grounded in addressing pragmatic solutions, we will create a Habitat Research Steering Committee comprised of landowners/managers, agency personnel, ex-officio members and our research team. This steering committee will help guide research initiatives, evaluate program accomplishments, and serve as ambassadors of the Habitat Research and Management Program at Borderlands Research Institute.

Currently procedures are scheduled on having our inaugural meeting for Spring 2020, where we will determine the charge for the Steering Committee. Additionally, the Steering Committee will help identify knowledge gaps with respect to habitat and help direct the general focus of the Habitat Research and Management Program over the next 5-10 years.

Possible members of the Habitat Steering Committee include:

- Landowner
- NRCS Representative

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- Landowner
- TPWD Representative
- Grazing Land Coalition Representative
- BRI/SRSU
- Louis Harveson—BRI/SRSU (ex-officio)
- Carlos E. Gonzalez—BRI/SRSU

Service

In the realm of conservation, collaboration and service are integral to any successful program. As the Nau Endowed Professor in Habitat Management and Research and Assistant Professor of Natural Resource Management, I have taken on leadership roles in various conservation organizations and initiatives.

Leadership Roles

1. Director, Texas Wildlife Association
2. Board of Directors for the Texas Chapter of the Society for Ecological Restoration
3. Advisor, SRSU Range and Wildlife Club
4. Advisor, SRSU Veterans Club
5. External reviewer for “Recruiting and retaining Hispanic students in Agriculture and Natural Resources: Enhancing learning experiences from Tejas to Iberia” – TAMU AgriLife and TSU
6. James G. Teer Conservation Leadership Institute

Outreach

Sharing research findings with key constituencies (landowners, ranch managers, hunters, and wildlife enthusiasts) is a key element of the Nau Endowed Professor in Habitat Management and Research. Outreach activities include scientific and popular presentations, as well as popular articles (magazine articles, newsletters, etc.).

Presentations

1. Katherine E. Haile, Jacob C. Locke, Carlos E. Gonzalez, Louis A. Harveson, and Shawn S. Gray. Nutritional Differences of Pronghorn-Preferred Forage and a Carrying Capacity Estimation between the Marathon and Marfa Grasslands in Trans-Pecos, Texas. The Texas Chapter of the Wildlife Society 2020.
2. Taylor S. Daily, Carlos E. Gonzalez, Louis A. Harveson, Warren C. Conway, Froylan Hernandez. Comparing Release Methods of Desert Bighorn: Survival and Cause-Specific Mortality. The Texas Chapter of the Wildlife Society 2020.
3. Jacob Locke, Katherine Haile, Carlos Gonzalez, Louis Harveson, and Shawn Gray. Cattle Grazing Regimes Effects on Pronghorn Forage Production in Trans-Pecos, Texas. The Texas Chapter of the Wildlife Society 2020.
4. Carlos E. Gonzalez, Louis A. Harveson, Thomas S. Janke, Dan A. Hughes Jr., Will Hughes, P. J. Fouche, George Strickhausen. 2019. Presentation, Texas Wildlife Association, Unraveling the Mysteries of Texas Mule Deer Ecology and Antler Development.
5. Carlos E. Gonzalez, Louis A. Harveson, Shawn Gray. 2019. Presentation, Rocker b Ranch – Update. Pronghorn restoration in the Rocker b Ranch.
6. Carlos E. Gonzalez, Louis A. Harveson, Shawn Gray. 2019. Presentation, Texas Department of Transportation, Pronghorn habitat and corridors: Bridging the gaps between habitat.

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7. Carlos E. Gonzalez, Louis A. Harveson, Shawn Gray. 2019. Presentation, The Chihuahuan Desert Conference, Pronghorn translocations in the Trans-Pecos: A summary of success.
8. Carlos E. Gonzalez, Louis A. Harveson. 2019. Presentation, Binational Wildlife Conference, Chihuahua Mexico, Mule deer in Texas and Mexico.
9. Taylor S. Daily, Carlos E. Gonzalez, Louis A. Harveson, Warren C. Conway, Froylan Hernandez. 2019. Poster, Texas Chapter of the Wildlife Society. Comparison of Desert Bighorn Sheep Home Ranges among Different Release Methods.
10. Taylor S. Daily, Carlos E. Gonzalez, Louis A. Harveson, Warren C. Conway, Froylan Hernandez. 2019. Poster, Desert Bighorn Council. Comparison of Desert Bighorn Sheep Home Ranges among Different Release Methods.
11. Taylor S. Daily, Carlos E. Gonzalez, Louis A. Harveson, Jose D. L. Martinez-Garcia, Alfonso Ortega-Sanchez. 2019. Oral Presentation, Western Association of Fish and Wildlife Agencies. Evaluation of a Translocated Population of Desert Mule Deer in the Chihuahuan Desert of Northern Coahuila, Mexico.
12. Taylor S. Daily, Carlos E. Gonzalez, Louis A. Harveson, Warren C. Conway, Froylan Hernandez. 2019. Poster, Sul Ross State University Undergraduate and Graduate Symposium. Comparison of Desert Bighorn Sheep Home Ranges among Different Release Methods.
13. Taylor S. Daily, Carlos E. Gonzalez, Louis A. Harveson, Warren C. Conway. 2018 3 minute thesis, Texas Section Society for Range Management. Movements, Survival, and Habitat Use of Desert Bighorn Sheep.
14. Howell Pugh, Carlos E. Gonzalez, Louis A. Harveson, Shawn Gray. 2018. Poster, 28th Biennial Western States and Provinces Pronghorn Workshop. Home Ranges of Translocated Pronghorn in the Trans-Pecos Region of Texas.
15. Howell Pugh, Carlos E. Gonzalez, Louis A. Harveson, Shawn Gray. 2019. Presentation, SRSU Undergraduate & Graduate Symposium, Home Ranges of Translocated Pronghorn in the Trans-Pecos Region of Texas.
16. Howell Pugh, Carlos E. Gonzalez, Louis A. Harveson, Shawn Gray. 2019. Texas Parks & Wildlife Mule Deer and Pronghorn Committee Meeting Home Range and Habitat Selection of Translocated Pronghorn in Trans-Pecos, Texas – Update.
17. Jacob Locke, Carlos E. Gonzalez, Louis A. Harveson, Shawn Gray. 2019. Texas Parks & Wildlife Mule Deer and Pronghorn Committee Meeting, Forb Production in Relation to Cattle Grazing Regimes in Trans-Pecos, Texas – Update.
18. Jacob Locke, Carlos E. Gonzalez, Louis A. Harveson, Shawn Gray. 2019. SRSU Undergraduate & Graduate Symposium, Pronghorn Forage Production in Relation to Cattle Grazing Regimes in Trans-Pecos, Texas.
19. Jacob Locke, Carlos E. Gonzalez, Louis A. Harveson, Shawn Gray. 2019. Texas Society for Range Management – 3 Minute presentation, Pronghorn Preferred Forage Production in Relation to Cattle Grazing Regimes in Trans-Pecos, Texas.
20. Jacob Locke, Carlos E. Gonzalez, Louis A. Harveson, Shawn Gray. 2019. Texas Grazing Coalition – 3 Minute presentation, Cattle Grazing Regimes effects on forb production in Trans-Pecos, Texas.
21. Jacob Locke, Katherine E. Haile, Carlos E. Gonzalez, Louis A. Harveson, Shawn Gray. 2019. Poster, Texas Chapter of the Wildlife Society. Pronghorn forage production in relation to cattle grazing regimes in Trans-Pecos, Texas.
22. Daniel Wilcox, Carlos E. Gonzalez, Louis A. Harveson, Shawn Gray, Froylan Hernandez. 2019. Desert Bighorn Sheep, Mule Deer, and Aoudad in the Van Horn Mountains, Texas – Update.

Popular Articles

1. Carlos E. Gonzalez, Louis A. Harveson, Roel R. Lopez, and Froylan Hernandez. Desert bighorn restoration: guiding management through science. Texas Wildlife Association.

Capacity

One of the biggest impacts the Nau Endowment for Habitat Management and Research has afforded our program is providing capacity. Dedicated research time allows our faculty adequate time to write and secure grant funding and then conduct and synthesize graduate student research projects. Grantsmanship, graduate student theses, and peer-reviewed publications are our metrics for capacity.

Teaching College Courses

- Fall 2019
 1. NRM 4307 Range and Wildlife Habitat Management
 2. NRM 5302 Ecological Modeling
- Spring 2020
 3. NRM 3301 Fire Ecology
 4. NRM 3401 Range Ecology
 5. NRM 4311 Problems in Natural Resource Management: Restoration Ecology

Graduate Students Thesis

1. Howell Pugh, Habitat use, seasonal movements, and acclimation period for translocated pronghorn in the Trans-Pecos region of Texas. Co-Chair (in progress)
2. Taylor Daily, Comparing survival and movements between release methods of desert bighorn sheep in the Black Gap Wildlife Management Area, Texas. (in progress).
3. Daniel Wilcox, Survival, habitat, and spatial overlap of desert bighorn sheep, mule deer, and aoudad in the Van Horn Mountains, Texas. Co-Chair (in progress)
4. Fabiola Baeza, Overwinter habitat requirements of Baird's sparrow (*centronyx bairdii*) and grasshopper sparrow (*ammodramus savannarum*) in the Marfa grasslands, Texas. Co-Chair (in progress)
5. Alejandro Chavez, Grassland bird survival and response to shrub removal treatment during the wintering season in west Texas. Co-Chair (in progress)
6. Jacob Locke, A carrying capacity estimate and grazing regime analysis based on pronghorn preferred forage in Trans-Pecos, Texas. Co-Chair (in progress)

Graduate Students Non-Thesis

1. Jorge Bustamante, Secondary risk assessment of mortality in turkey vultures consuming wild pigs killed with hoggone. Committee member, 2019.

Undergraduate Research Projects

1. Katherine E. Haile, Nutritional difference on pronghorn preferred forage and carrying capacity estimation of the Marathon and Marfa grasslands in the Trans-Pecos, Texas. (BRI Undergraduate Mentorship Program)

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2. Hagen D. Meyer, Documenting the plant evaluation process for commercial Release purposes: evaluation of hairy grama and Narrowleaf globemallow for West Texas. (BRI Undergraduate Mentorship Program)
3. Ericka I Dunn, Mule Deer Feeder Visitation in relation to lunar phases in the Trans-Pecos, Texas. (BRI Undergraduate Mentorship Program)
4. J. Silverio Ávila Sánchez, Use of water and lambing behavior by aoudad and desert bighorn sheep in the Sierra Vieja, Texas. (BRI Undergraduate Mentorship Program)

Publications

1. Whiney J. Gann, Louis A. Harveson, Carlos E. Gonzalez, and Raul Valdez. 2019. Pronghorn in Mexico. Wildlife Ecology and Management in Mexico, editors Raul Valdez and J. Alfonso Ortega-Santos. TAMU Press, College Station, Texas, USA.
2. Carlos E. Gonzalez, Louis A. Harveson, and Ryan. S. Luna. 2017. Survival and nesting ecology of scaled quail in the Trans-Pecos, Texas. National Quail Symposium Proceedings. Vol. 8, Article 100:395-400.
3. Luna, R.S., Carlos E. Gonzalez, R. Temple, B. Gallegos, R. Jankowiak, E. Garcia-Ortega, C. Greene, J. Turney, and Louis A. Harveson. 2013. A research report on desert quail ecology and management. SRSU print shop, Alpine, Texas.
4. Carlos E. Gonzalez, F. Ayala-A., J. A. Ortega-S., W. P. Kuvlesky, and R. Hangriff. 2010. Chemical control of wolffeed (*Aster spinosus*) in South Texas. Texas Journal of Agriculture and Natural Resources. 24:32-37.
5. Whiney J. Gann, Shawn Gray, Robert O. Dittmar, Carlos E. Gonzalez, Louis A. Harveson. Effective Pronghorn Translocation Methodology: A Long-Term Summary. Wildlife Society Bulletin.

Publications in Review

1. Carlos E. Gonzalez, Louis A. Harveson, Roel Lopez, Thomas S. Janke, Joshua G. Cross, Froylan Hernandez. Survival and cause-specific mortality of translocated desert bighorn in Texas. Wildlife Society Bulletin.
2. Carlos E. Gonzalez, Louis A. Harveson, Brian Pierce, Roel Lopez, Thomas S. Janke, Joshua G. Cross, Froylan Hernandez. Habitat-based probability distribution model for desert bighorn sheep. Journal of Wildlife Management.
3. J. Alfonso Ortega S., Alfonso Ortega-Sanchez, Carlos E. Gonzalez. Book *editor* Eduardo A. Gonzalez V., Beef bovine grazing management in Northeast Mexico. Chapter, Habitat management with wildlife integration to the livestock enterprises.
4. Carlos E. Gonzalez, William E. Grant, Louis A. Harveson, Roel Lopez, Froylan Hernandez. Evaluation of translocation alternatives for desert bighorn sheep. Journal of Wildlife Management.

Publications in Preparation

1. Jacob Locke, Carlos E. Gonzalez, Louis A. Harveson, and Shawn Gray. (In preparation) Pronghorn forage production in relation to cattle grazing regimes in Trans-Pecos, Texas. Rangeland Ecology & Management.
2. Jacob Locke, Carlos E. Gonzalez, Louis A. Harveson, and Shawn Gray. (In preparation) Pronghorn populations carrying capacity estimations in the Marfa and Marathon grasslands in Trans-Pecos, Texas. Rangeland Ecology & Management.
3. Howell Pugh, Carlos E. Gonzalez, Louis A. Harveson, and Shawn Gray. (In preparation) Seasonal movements and acclimation period for translocated pronghorn in the Trans-Pecos region of Texas. Journal of Wildlife Management.

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4. Howell Pugh, Carlos E. Gonzalez, Louis A. Harveson, and Shawn Gray. (In preparation) Habitat selection for seasonal and acclimation period of translocated pronghorn in the Trans-Pecos region of Texas. *Journal of Wildlife Management*.
5. Taylor Daily, Carlos E. Gonzalez, Louis A. Harveson, Froylan Hernandez. (In preparation) Comparing different release methods of desert bighorn: Survival and cause specific mortality. *Journal of Wildlife Management*.
6. Taylor Daily, Carlos E. Gonzalez, Louis A. Harveson, Froylan Hernandez. (In preparation) Spatial habitat use comparison of desert bighorn sheep amongst different release methods. *Landscape Ecology*.
7. Daniel Wilcox, Carlos E. Gonzalez, Louis A. Harveson, Shawn Gray Froylan Hernandez. (In preparation) Spatial habitat use comparison of desert bighorn sheep, mule deer, and aoudad. *Landscape Ecology*.
8. Daniel Wilcox, Carlos E. Gonzalez, Louis A. Harveson, Shawn Gray Froylan Hernandez. (In preparation) Habitat selection comparison of desert bighorn sheep, mule deer, and aoudad. *Journal of Wildlife Management*.
9. Daniel Wilcox, Carlos E. Gonzalez, Louis A. Harveson, Shawn Gray Froylan Hernandez. (In preparation) Spatial interactions and overlap of desert bighorn sheep, mule deer, and aoudad. *Journal of Wildlife Management*.
10. Daniel Wilcox, Carlos E. Gonzalez, Louis A. Harveson, Shawn Gray Froylan Hernandez. (In preparation) Habitat corridors assessment of desert bighorn sheep, mule deer, and aoudad. *Journal of Wildlife Management*.
11. Fabiola Baeza, Mieke Titular, Carlos E. Gonzalez, Louis A. Harveson. (In preparation) Habitat relationships of baird's and grasshopper sparrows in the Marfa grasslands, Texas. *Avian Biology*.
12. Fabiola Baeza, Mieke Titular, Carlos E. Gonzalez, Louis A. Harveson. (In preparation) Using remote sensing imagery to assess accuracy of visual vegetative surveys for grassland birds. *Avian Biology*.
13. Alex Chavez, Mieke Titular, Carlos E. Gonzalez, Louis A. Harveson. (In preparation) Grassland bird survival and response to shrub removal treatment during the wintering season in West Texas. *Avian Biology*.

Research and Educational Grants

2019	West Texas Safari Club International, \$7,000
2019	National Fish and Wildlife Foundation– Pecos Watershed Conservation Initiative, Marfa and Marathon Grassland Habitat Enhancement \$ 244,695.11 via National Fish and Wildlife Foundation