

**HUMBERTO LAURO PEROTTO, Ph.D.**  
**Curriculum Vitae**

---

*Mailing address:*

Caesar Kleberg Wildlife Research Institute  
Texas A&M University-Kingsville  
700 University Blvd, MSC 218  
Kingsville, TX 78363

*Phone:* +1-361-593-3977

*Email:* Humberto.perotto@tamuk.edu

*ResearchGate profile:*

[http://www.researchgate.net/profile/Humberto\\_Perotto-Baldivieso](http://www.researchgate.net/profile/Humberto_Perotto-Baldivieso)

---

## EDUCATION

- **Doctor in Philosophy.** 2005. Texas A&M University.  
*Major:* Rangeland Ecology and Management  
*Committee Chair:* X. Ben Wu  
*Dissertation:* GIS- based multiple scale study of Rio Grande wild turkey habitat in the Edwards Plateau of Texas.
- **Master of Science.** 2000. Texas A&M University.  
*Major:* Forestry  
*Committee Co-Chairs:* Richard Fisher and Tattersall Smith  
*Thesis Title:* Landslide hazard zonation in Namasigue and El Triunfo, Southern Honduras.
- **Bachelor of Science.** 1995. Universidad Mayor de San Simón (Bolivia).  
*Major:* Agronomy  
*Committee Chair:* Rosario Torrico  
*Thesis title:* Identificación del agente causal de la marchitez bacteriana en maíz (*Zea mays*) en el Valle Alto de Cochabamba. [Identification of bacterial wilt in corn (*Zea mays*) in the high Valleys of Cochabamba]
- **Post Graduate Certificate in Learning, Teaching and Assessment in Higher Education.** 2015. Cranfield University (U.K.)
- **Certificate of Science Education Specialist.** 2004. Information Technology in Science (ITS) Center for Teaching and Learning, Texas A&M University.

## **EMPLOYMENT HISTORY**

- 2015 to present. Assistant Professor and Research Scientist. Department of Animal, Rangeland and Wildlife Sciences. Caesar Kleberg Wildlife Research Institute. Texas A&M University – Kingsville.
- 2008 to present. Adjunct Faculty. Department of Ecosystem Science and Management. Texas A&M University.
- 2014 – 2015. Consultant. Museo de Historia Natural “Noel Kempff Mercado”. Universidad Autónoma Gabriel Rene Moreno (Bolivia).
- 2009 – 2014. Lecturer in Landscape Ecology. School of Energy, Environment and Agrifood. Cranfield University (United Kingdom).
- 2009. Short-Term Consultant. World Bank (Bolivia).
- 2006 – 2008. Assistant Professor (Academic training). Texas A&M AgriLife Research and Extension Center at Uvalde.
- 2005 – 2006. Post-Doctoral Researcher. Department of Biology. University of Puerto Rico (Puerto Rico).
- 2000 – 2001. Research Assistant. Hazard Reduction and Recovery Center.
- 2001 – 2005. Research Assistant. Department of Rangeland Ecology and Management. Texas A&M University.
- 1996 – 1998. Technical Liaison. IADB–Amazonia Project. Ministerio de Desarrollo Sostenible y Planificación (Bolivia).
- 1995 – 1996. GIS Operator. Bureau of Land Management. Ministerio de Desarrollo Sostenible y Planificación (Bolivia).

### **Courses Taught at Texas A&M University – Kingsville.**

#### *Graduate:*

- **WFSC 6390 Landscape Ecology. (Fall semester odd years)**
- **WFSC 6390 Remote Sensing for Wildlife and Habitat Management (Fall semester even years)**

#### *Undergraduate:*

- **RWSC 3390 Landscape Ecology (Fall semester).**

## BIBLIOGRAPHY OF PUBLICATIONS

### Refereed Journal Articles

- Kubečka, B. W., J. T. Edwards, L. M. Lacoste, D. Rollins, F. Hernández, and **H. L. Perotto-Baldivieso**. An evaluation of population indices for Northern bobwhite. *Wildlife Society Bulletin (In-press)*.
- Miller, K. S., L. A. Brennan, **H. L. Perotto-Baldivieso**, F. Hernández, E. D. Grahmann, A. Z. Okay, X. B. Wu, M. J. Peterson, H. Hannusch, J. Mata, J. Robles, and T. Shedd. Correlates of habitat fragmentation and northern bobwhite abundance in the Gulf Coast Prairie Landscape Conservation Cooperative. *Journal of Fish and Wildlife Management (In-Press)*.
- Newman, B. C., S. E. Henke, D. B. Wester, T. M. Shedd, **H. L. Perotto-Baldivieso**, and D. C. Rudolph. Determining the suitability of the Jamaican boa (*Chilabothrothrus subflavus*) for short-distance translocation in Cockpit Country, Jamaica. *Caribbean Journal of Science (In-Press)*.
- Ajedegba, J. O., **H. L. Perotto-Baldivieso**, K. D. Jones. Coastal dune vegetation resilience at South Padre Island: A spatio-temporal evaluation of the landscape structure. *Journal of Coastal Research (In-Press)*
- Cheleuitte-Nieves, C., **H. L. Perotto-Baldivieso\***, X. B. Wu, and S. M. Cooper. 2018. Association patterns reveal dispersal-aggregation dynamics among cattle in a South Texas Rangeland, USA. *Ecological Processes* 7:29.
- Cochi Machaca, N., B. Condori, A. Rojas Pardo, F. Anthelme, R. I. Meneses, C. E. Weeda, and **H. L. Perotto-Baldivieso\***. 2018. Effects of grazing pressure on plant species composition and water presence on bofedales in the Andes mountain range of Bolivia. *Mires and Peat* 21:1–15.
- Mata, J. M., **H. L. Perotto-Baldivieso\***, F. Hernández, E. D. Grahmann, S. Rideout-Hanzak, J. T. Edwards, M. T. Page, and T. M. Shedd. 2018. Quantifying the spatial and temporal distribution of tanglehead (*Heteropogon contortus*) on South Texas rangelands. *Ecological Processes* 7:1–9.
- Hansler, T. P., S. E. Henke, **H. L. Perotto-Baldivieso**, J. A. Baskin, C. Hilton. 2017. Short-distance translocation as a management option for nuisance maritime pocket gophers. *Southeastern Naturalist* 164: 603–613.
- Zemanova, M.A., **H.L. Perotto-Baldivieso\***, E.L. Dickins, A.B. Gill, J.P. Leonard, D.B. Wester. 2017. Impact of deforestation on habitat connectivity thresholds for large carnivores in tropical forests. *Ecological Processes*, 6, 21
- Muñoz Puelles, L., A. B. Gill, K. Osinaga, and **H. L. Perotto-Baldivieso**. 2016. Floodplain fish communities in river systems in Bolivia: Current knowledge and addressing future research challenges. *Ecología en Bolivia* 51:26-41.
- Fernández, M., L. M. Navarro, A. Apaza-Quevedo, S. C. Gallegos, A. Marques, C. Zambrana-Torrelío, F. Wolf, H. Hamilton, A. J. Aguilar-Kirigin, L. F. Aguirre, M. Alvear, J. Aparicio, L. Apaza-Vargas, G. Arellano, E. Armijo, N. Ascarrunz, S. Barrera, S. G. Beck, H. Cabrera-Condarco, C.

Campos-Villanueva, L. Cayola, N. P. Flores-Saldana, A. F. Fuentes, M. C. García-Lino, M. I. Gómez, Y. S. Higuera, M. Kessler, J. C. Ledezma, J. M. Limachi, R. P. López, M. I. Loza, M. J. Macía, R. I. Meneses, T. B. Miranda, A. B. Miranda-Calle, R. F. Molina-Rodriguez, R. M. Moraes, M. I. Moya-Diaz, M. Ocampo, **H. L. Perotto-Baldivieso**, O. Plata, S. Reichle, K. Rivero, R. Seidel, L. Soria, M. F. Terán, M. Toledo, F. S. Zenteno-Ruiz, and H. M. Pereira. 2015. Challenges and opportunities for the Bolivian Biodiversity Observation Network. *Biodiversity* 16:86-98. doi:10.1080/14888386.2015.1068710.

Santos, S. A., H. P. Lima, **H. L. Perotto-Baldivieso**, L. O. Oliveira, and W. M. Tomas. 2014. GIS-fuzzy logic approach for building indices: regional feasibility and natural potential of ranching in tropical wetland. *Journal of Agricultural Informatics* 5:26-33.

Tait, J., **H.L. Perotto-Baldivieso**, A. McKeown, and D. Westcott. 2014. Are flying foxes coming to town? Urbanisation of the spectacled flying fox (*pteropus conspicillatus*) in Northern Queensland. *PLOS One* 9(10): e109810. doi:10.1371/journal.pone.0109810.

Young, D., **H. L. Perotto-Baldivieso\***, T. Brewer, R. Homer, and S. A. Santos. 2014. Monitoring British upland grazing ecosystems with the use of landscape structure as an indicator for state-and-transition models. *Rangeland Ecology and Management* 67: 380-388. doi: 10.2111/REM-D-13-00170.1.

Santos, S. A., H. L. **Perotto-Baldivieso**, and D. Young. 2014. Resilience and degradation in a tropical wetland overgrazed by cattle. *Tropical Grasslands – Forrajes Tropicales* 2: 138-139.

Arancibia-Arce, L.R., **H. L. Perotto-Baldivieso\***, J. R. Furlán, M. Castillo-García, L. Soria, and K. Rivero-Guzmán. 2013. Spatial and temporal assessment of fragmentation and connectivity analysis for ecotourism activities in a RAMSAR site: Bañados de Isoso (Santa Cruz, Bolivia). *Ecología en Bolivia* 48: 87-103.

Dickins, E. L., A. R. Yallop, and **H. L. Perotto-Baldivieso\***. 2013. A multiple-scale analysis of host plant selection in Lepidoptera. *Journal of Insect Conservation* 17: 933-939. doi: 10.1007/s10841-013-9574-8.

Ku, N. W., S. C. Popescu, R. J. Ansley, **H. L. Perotto-Baldivieso**, and A. M. Filippi. 2012. Assessment of available rangeland woody plant biomass with a terrestrial Lidar system. *Photogrammetric Engineering & Remote Sensing* 78: 349-361.

**Perotto-Baldivieso, H. L.\***, S. M. Cooper, A. F. Cibils, M. Figueroa-Pagán, K. Udaeta, and C. Rubio. 2012. Detecting autocorrelation problems from GPS collars data in livestock studies. *Applied Animal Behaviour Science* 136: 117-125. doi: 10.1016/j.applanim.2011.11.009.

Cooper, S. M., **H. L. Perotto-Baldivieso**, M. G. Meek, M. Figueroa-Pagán, and M. K. Owens. 2011. Influence of ranch infrastructure on the spatial distribution of white-tailed deer on South Texas rangeland. *Animal Production Science* 51(4): xiii-xvii. doi:10.1071/ANv51n4communic.

**Perotto-Baldivieso, H. L.\***, X. B. Wu, M. J. Peterson, F. E. Smeins, N. J. Silvy, and T. W. Schwertner. 2011. Flooding-induced landscape changes along dendritic stream networks and implications for wildlife habitat. *Landscape and Urban Planning* 99: 115-122. doi:10.1016/j.landurbplan.2010.09.002.

**Perotto-Baldivieso, H. L.\***, E. Meléndez-Ackerman, M. A. García, P. Leimgruber, S. M. Cooper, A. Martinez, P. Calle, O. M. Ramos Gonzales, M. Quiñones, C. Christen, and G. Pons. 2009. Spatial distribution, connectivity, and the influence of scale: habitat availability for the endangered Mona Island Rock Iguana. *Biodiversity and Conservation* 18: 905-917. doi: 10.1007/s10531-008-9520-3

Cooper, S. M., **H. L. Perotto-Baldivieso**, M. K. Owens, M. G. Meek, and M. Figueroa-Pagán. 2008. Distribution and interaction of white-tailed deer and cattle in a semi-arid grazing system. *Agriculture Ecosystems and Environment* 127: 85-92. doi: 10.1016/j.agee.2008.03.004.

Huang, Y., B. P. Wilcox, L. Stern, and **H. L. Perotto-Baldivieso**. 2006. Springs on rangelands: Influence of woody plant cover and runoff dynamics. *Hydrological Processes* 20: 3277-3288. doi: 10.1002/hyp.6332.

**Perotto-Baldivieso, H. L.\***, T. L. Thurow, C. T. Smith, R. F. Fisher, and X. B. Wu. 2004. GIS-based spatial analysis and modeling for landslide hazard assessment in steeplands, Southern Honduras. *Agriculture Ecosystems and Environment* 103: 165-176. doi:10.1016/j.agee.2003.10.011.

Drees, L. R., L. P. Wilding, P. R. Owens, X. B. Wu, **H. Perotto**, and **H. Sierra**. 2003. Steepland resources: Characteristics, stability and micromorphology. *Catena* 54: 619-636. doi:10.1016/S0341-8162(03)00138-3.

Thurow, T. L., A. P. Thurow, X. B. Wu, and **H. L. Perotto-Baldivieso**. 2002. How to target soil conservation investments in Honduras. *Choices* 17: 20 – 25.

\* **H. L. Perotto-Baldivieso** is corresponding author

### Refereed proceedings

Santos, S. A., **H. L. Perotto-Baldivieso**, and D. Young. 2013. Resilience and degradation in a tropical wetland overgrazed by cattle. *Proceedings of the International Grassland Congress* 22: 881-882.

Santos, S. A., A. L. J. Desbiez, **H. L. Perotto-Baldivieso**, and J. M. Alvarez. 2013. Evaluating rangeland's grazing capacity for livestock and wild herbivores using the delta diet tool and GIS technology. *Proceedings of the International Grassland Congress* 22: 621-624.

**Perotto-Baldivieso, H. L.**, K. Rivero, J. Pinto-Ledezma, A. B. Gill. 2012. Distributing biodiversity data through the web: The Geospatial Center for Biodiversity in Bolivia. *Simposio de Geotecnologías no Pantanal* 4: 1252-1258.

Santos, S. A., H. Pova de Lima, L. O. F. de Oliveira, W. M. Tomás, U. G. P. de Abreu, S. M. F. S. Massruhá, and **H. L. Perotto-Baldivieso**. 2012. Integrating remote sensing, geographic

information systems and fuzzy logic: an index to evaluate the natural potential for livestock ranching in the Pantanal. *Simposio de Geotecnologias no Pantanal 4*: 202-209.

- García García, V., **H. L. Perotto-Baldivieso**, and S. Hallett. 2010. A prototype design for a web-GIS support system: The Bolivia Amazon case study. In Backhaus R, L. Czarán, N. Epler, M. Leitgab, D. Stevens, and J. Szarzynski (Eds.): *The 4C-Challenge: Communication - Coordination - Cooperation - Capacity Development*. Selected contributions to the Fourth United Nations International UN-SPIDER Bonn Workshop on Disaster Management and Space Technology.
- Schaap, J. N., N. J. Silvy, M. J. Peterson, R. Aguirre, and **H. L. Perotto-Baldivieso**. 2005. Spatial distribution of female Rio Grande wild turkeys during the reproductive season. *Proceedings of the National Wild Turkey Symposium 9*: 308-312.

### Published reports

- Miller, K. S., L. A. Brennan, **H. L. Perotto-Baldivieso**, F. Hernández, E. D. Grahmann, A. Z. Okay, X. B. Wu, M. J. Peterson, H. Hannusch, J. Mata, J. Robles. 2017. Impacts of habitat fragmentation on Northern bobwhites in the Gulf Coast Prairie Landscape Conservation Cooperative. Gulf Coast Prairie Landscape Conservation Cooperative.
- Santos S. A., A. L. J. Desbiez, **H. L. Perotto-Baldivieso**, and L. A. Pellegrin. 2013. Uso de Tecnologia de Precisão na Estimativa da Capacidade de Suporte em Pastagens sob Uso Múltiplo no Pantanal. *Embrapa Pantanal CT 107*.
- Naves J., V. Meyer, **H. L. Perotto-Baldivieso**, G. A. Fernandez, M. Quevedo, J. Seijas, and M. Delibes. 2010. Identificación de corredores de comunicación entre las poblaciones cantábricas de osos pardos: Propuestas para la gestión. Principado de Asturias, España.

### Popular articles

- Kuvlesky, W. Jr., J. A. Ortega-Santos, and H. L. Perotto-Baldivieso. 2018. The CKWRI wild turkey project. *South Texas Wildlife 22(2)*:3-4.
- Fulbright, T., R. DeYoung, D. Hewitt, W. C. Conway, H. Perotto-Baldivieso, and S. Gray. 2017. Panhandle pronghorns: How do crops influence them? *Caesar Kleberg Tracks 2(1)*:8-9.
- Mitchell, B. S., D. Crowley, W. P. Kuvlesky, Jr., J. A. Ortega-Santos, L. A. Brennan, and H. Perotto-Baldivieso. 2017. The Caesar Kleberg wild turkey research project. *Caesar Kleberg Tracks 2(2)*:12-15.
- Perotto-Baldivieso, H. L., J. A. Ortega-S., D. B. Wester, K. Labrador, J. Mata, and M. House. 2018. Looking at vegetation from the skies. *Caesar Kleberg Tracks 3(1)*:12-14.
- Perotto-Baldivieso, H. L., J. M. Mata, F. Hernández, E. D. Grahmann, S. Rideout-Hanzak, J. T. Edwards, M. T. Page, and T. M. Shedd. 2018. Monitoring tanglehead from space. *Caesar Kleberg Tracks 3(1)*:15.

Perotto-Baldivieso, H. L. 2017. Drones take wildlife research into the future. *Javelina Today*, Fall 2017: 6–8.

Perotto-Baldivieso, H. L., J. A. Ortega-S., S. Rideout-Hanzak, D. B. Weser, J. Jung, J. M. Mata, C. Walther, K. Labrador. 2017. Geospatial Technologies: New trends and ideas for range and wildlife habitat management. *Grass roots*, May-June 2017: 9–10.

Perotto-Baldivieso, H. L., D. Weimers. 2017. The Don Pendleton Memorial College student awards. *Grass roots*, Nov-Dec 2017: 12–16.

Perotto-Baldivieso, H. L. 2016. Geospatial technologies Laboratory at CKWRI. *South Texas Wildlife*.

### **HONORS AND AWARDS.**

2018 Junior Research Award. Dick & Mary Lewis Kleberg College of Agriculture, Natural Resources & Human Sciences.

2015 Fellow of the Higher Education Academy (U.K.)

2012 Most Interactive Teacher. Student Lead Teaching Award – School of Applied Sciences. Cranfield University (U.K.).

2007 Alfred P. Sloan Mentor for Graduate scholarship program for Minorities (U.S.).

2005 Student Research Week Award. Texas A&M University (U.S.).

2003 Tom Slick Fellowship. College of Agriculture, Texas A&M University (U.S.).

2003 Springfield Fellowship. Department of Rangeland Ecology and Management, Texas A&M University (U.S.).

2003 Outstanding PhD Student. Department Rangeland Ecology and Management, Texas A&M University (U.S.).

2001 Certificate of Excellence, International Agriculture and Resource Management, Texas A&M University (U.S.).

2001 Student Research Week award. Texas A&M University (U.S.).

2000 Outstanding Teaching Award. Department of Forest Science. Texas A&M University (U.S.).

1998 FULBRIGHT Scholarship (U.S.).

1993 Agronomy Students Scientific Society Recognition (Bolivia).