



**JOSÉ EDUARDO PONCE GUEVARA**  
**CURRICULUM VITAE**

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**Ecology and Conservation of Wildlife**  
**Instituto de Ecología, U.N.A.M.**  
**Circuito Exterior s/n junto al Jardín Botánico / Inst. de Biología**  
**04510 Ciudad Universitaria, D. F.**

**BIOGRAPHY**

Eduardo did his BA in Biology at the Querétaro State University, Mexico. His first projects in 2003 were focused biodiversity assessment to determine the feasibility of human developments. Later, Eduardo participated on more specific research projects related with carnivore ecology and their role on the ecosystem in the Sonora mountains. However, Eduardo focused his efforts in the grassland region located at northwestern Chihuahua, Mexico, since 2006 on where he have participated in several projects, but also has been the principal investigator in some others related with the ecology of arid grasslands specifically working with black-tailed prairie dogs, North American porcupine, black-footed ferret, and American bison. During all this time Eduardo realized the intense human-wildlife conflicts as apparent competitors for the natural resources. This took Eduardo to think more about these human – environment conflicts, and nowadays he is focusing his PhD in understand, confront and provide solutions to this conflicts.

Throughout his professional development he has made a great effort to link social development in basic research to solving environmental problems. Based on this information, he started studies and actions to reduce and revert the habitat degradation by changing the dominant economic activities (i.e. cattle ranching and agriculture). While at an experimental scale, the implications of their work could change the paradigm on how conservation has been done in Mexico, by using the economic forces behind ecosystem decline as the agents of restoration. Since 2006 Eduardo has contributed with more than \$ 30,000 dollars to develop their research on conservation. His academic development was recognized and he was nominated for the Youth Rolex Awards for



Enterprise in 2010 and has been part of the experimented equipment awarded by The Whitle Fund for Nature Award in 2010 and 2011.

Currently, his work is having a major impact on the definition and implementation of environmental policies in the Janos Biosphere Reserve that is already considered as an example to improve the designation and management on natural protected areas in the country. A significant proportion of his research has been devoted to address issues related to the conservation of biological diversity as: mammal ecology in the arid environments and their implications for conservation, the key role of prairie dogs in the conservation of grasslands in North America, the economy of natural resources, and the economic tools for conservation

#### **ACADEMIC DEVELOPMENT**

- 2010 to present – PhD student at Ecology Institute, UNAM with the project: Managing prairie dogs, domestic cattle, and honey mesquite; Implications for grassland conservation.
- November 2013 – Academic Writing and Oral presentations Course. Universidad Nacional Autónoma de México.
- June-July 2013 - Environmental Leadership Program. International Course at University of California, Berkeley.
- August 2012 – Economic Tools for Conservation. International course at Stanford University, CA, USA.
- 2012 – Environmental and Economic Valuation at Economy Faculty in UNAM
- 2011 – Economy of Natural Resources course at Economics Faculty in UNAM
- 1999-2004 BA in Biology at Natural Sciences Faculty in Queretaro State University

#### **PROFESIONAL EXPERIENCE**

- 2014. Coordinator. Herramientas Económicas para la Conservación de la Naturaleza, México
- 2014. Conservation Strategy Fund - UNAM



- 2014. Coordinator. Conservación del perrito llanero de Cola negra en Sonora y Chihuahua. Programa de acción para la conservación de especies en riesgo (PROCER) CONANP-UNAM
- 2013 - Coordinator. Restauración y conservación de los pastizales áridos en el noroeste de México. Alianza WWF – Fundación Carlos Slim.
- 2013. Coordinator. Large-scale restoration and conservation of the prairie dog grasslands in Janos, Mexico. Whitley Fund for Nature.
- 2009 – Member of the Scientific Board in the Janos Biosphere Reserve.
- 2010 – 2014 Teaching assistant. Conservation Biology Course, Ecology Institute, U.N.A.M.
- 2006 – 2009. Principal researcher on the project “Habitat use of North American porcupine (*Erethizon dorsatum*) at the limits of its distribution”. Janos, Chihuahua. 2006 to present.
- 2005 – 2009. Field technician in the project The Wild Bison (*Bison bison*) from Chihuahua, Mexico: Issues on Conservation and Historic distribution”. Janos Chihuahua.
- 2006 - Consultant in the project Black-footed ferret (*Mustela nigripes*) reintroduction in Janos, Chihuahua.
- 2004 – 2005. Field coordinator in the project Ecology and conservation of jaguar (*Panthera onca*) in Sonora, The Northern Jaguar Project.
- 2002 – 2004. Consultant in the project Ecology and management of carnivores in the Sierra de San Luis mountains, Sonora México. Universidad Autónoma de Querétaro.
- Consultant in the project Analysis of the mammal community in the state of Nayarit. 2003

## SCIENTIFIC PRODUCTION

### Indexed articles

1. List, R., J. Pacheco, E. PONCE, R. Sierra-Corona, and G. Ceballos. 2010. The Janos Biosphere Reserve Northern Mexico. *International Journal of Wilderness* 16:35-41
2. Davidson, A., E. PONCE, D. Lightfoot, E. Fredrickson, J.H. Brown, S.L. Brantley, J. Cruzado, R. Sierra-Corona, R. List, D. Toledo, and G. Ceballos. 2010. Rapid response of a



- grassland ecosystem to an experimental manipulation of a keystone rodent and domestic livestock. *Ecology* 91:3189-3200.
3. Ceballos, G., J. Arroyo-Cabrales, and E. PONCE. 2010. Effects of Pleistocene environmental changes on the distribution and community structure of the mammalian fauna of Mexico. *Quaternary Research* 73:464-473.
  4. Cartron, J.L., R. Sierra, E. PONCE., R. Harness, P. Manzano, and G. Huerta. 2006. Bird Electrocutations and Power poles in Northwestern Mexico: an overview. *Raptors Conservation* 7:4-14.
  5. Pelz-Serrano, K., E. PONCE, R. Sierra, R. List, and G. Ceballos. 2006. Recent Records of Desert Bighorn Sheep (*Ovis Canadensis mexicana*) in Eastern Sonora and Northwestern Chihuahua, Mexico. *Southwestern Naturalist* 51(3):430-434.
  6. Santos-Barrera, G., J. Cruzado, E. PONCE-GUEVARA, R. Sierra-Corona, and J. Pacheco. 2006. *Bufo alvarius*, Geographic Distribution. *Herpetological Review* 37(1): 98.
  7. PONCE, E., K. Pelz, and C. López. 2006. Coyote abundance in relation to the habitat characteristics in Sierra San Luis, Sonora, México. *Biodiversity and Management of the Madrean Archipelago II: connecting Mountain Islands and Desert Seas*. US Forest Service Rocky Mountain Research Station Proceedings series 337-340.
  8. Pelz K., E. PONCE, and C. López. 2006. Habitat and conservation status of the beaver (*Castor canadensis*) in the Sierra San Luis, Sonora, México. *Biodiversity and Management of the Madrean Archipelago II: connecting Mountain Islands and Desert Seas*. US Forest Service Rocky Mountain Research Station Proceedings series 429-433.
  9. López C., E. PONCE, K. Pelz, H. Luna, and R. Sierra. June 2004. A record of the Ornate Hawk-Eagle (*Spizaetus ornatos*) in Nayarit, Mexico. *Journal of Raptor Research* 38: 183-194.

### **Outreach articles**

1. Ceballos, G., E. PONCE, R., Sierra, J., Pacheco, and R., List, 2009. Reserva de la Biosfera Janos, Chihuahua; Herencia natural de México. Panphlet no. 1. Instituto de Ecología UNAM-Tatevari Ediciones.



2. Rurik List, EDUARDO PONCE, Krista Schlyer, and Rodrigo Sierra. 2008. Memoria visual de especies y ecosistemas en la frontera chihuahua – nuevo méxico y sonora – arizona en sitios donde se construirá infraestructura del muro fronterizo. pp. 85
3. Manzano-Fischer, P., R. List, Cartron J.L., R. Sierra, and E. PONCE. 2007. Electrocutación de aves en líneas de distribución de energía eléctrica en México. *BioDIVERSITAS* 74:11-15.

### ACADEMIC PRESENTATIONS

1. Ponce, E., A. Davidson, E. Fredrickson, and G. Ceballos. 2012. Managing prairie dogs, cattle and honey mesquite; Implications for grassland conservation. *Biodiversity and Management of the Madrean Archipelago III*. May 4, 2012.
2. Ponce, E. Una historia fotográfica por la conservación de los perritos llaneros. Feria Internacional del Libro del Palacio de Minería, March 6, 2012.
3. Sierra-Corona, R, E. PONCE, J.Pacheco, R. List, and G. Ceballos. 2011. Janos Biosphere Reserve. Malpai Broderlands Group Meeting; trails beyond boundaries: the natural-cultural landscape of a shared environment. January 12-13 Douglas, Arizona.
4. Ed Fredrickson, Curtis Monger, EDUARDO PONCE, and Dan Fredrickson, Mesquite: A Long-View. 16th Biennial Mogollon Archaeology Conference. New Mexico State University, Corbett Center Octubre 14, 2010
5. Eduardo PONCE. 2010. Prairie dog (*Cynomys ludovicianus*) influence in the Janos Biosphere Reserve. "Seminario de Divulgación: "México un país megadiverso. Una oportunidad de desarrollo. CONABIO, México, D.F.
6. Davidson, A. D., E. PONCE, D. C. Lightfoot, E. L. Fredrickson, J. H. Brown, J. Cruzado, S. L. Brantley, R. Sierra, R. List, D. Toledo, and G. Ceballos. 2010. Rapid response of a grassland ecosystem to an experimental manipulation of a keystone rodent and domestic livestock. American Society of Mammalogists Meeting, Laramie, Wyoming.



7. Pacheco, J., R. List, R. Sierra, E. PONCE, E. Marcé, L. Martínez, H. Zarza, and G. Ceballos. 2009. Decline in geographic distribution of the black-tailed prairie dog (*Cynomys ludovicianus*) in Mexico. 10<sup>th</sup> International Mammal Congress . Mendoza, Argentina.
8. Davidson, A. D., E. PONCE, S. L. Brantley, J. Cruzado, E. L. Fredrickson, R. Sierra, R. List, D. C. Lightfoot, D. Toledo, J. H. Brown, and G. Ceballos. 2009. Interactive effects of native and exotic herbivores: Prairie dogs and cattle cause rapid changes to a grassland community. The Ecological Society of America Meeting, Albuquerque, NM.
9. Fredrickson, E. L., Ceballos, G., List, R., Barajas, N., Sayre, N., Roacho, J. O., Sierra, R., PONCE, E., Davidson A. D., Melgoza, A., Jaquez, C., and Bezanilla, G.A. 2009. Linking biological conservation to healthy rural communities: a case history of the Janos – Casas Grandes Biosphere Reserve. Ecological Society of America Meeting, Albuquerque, NM.
10. Lightfoot, D.C., A.D. Davidson, E. PONCE, R. List, and G. Ceballos. 2009. Influences of native prairie dogs and domestic cattle on the native grasshopper assemblages of a desert grassland. The Ecological Society of America Meeting, Albuquerque, NM.
11. Sierra-Corona R., E.L. Fredrickson, G.Ceballos, A.L. González, A.S., Laliberte, A.D., Davidson, R. List, G. Bezanilla, and E. PONCE. 2007. Can prairie dog-cattle interactions be used to remediate desertified Chihuahuan Desert grasslands? Ecological Society of America annual meeting San Jose Ca. Species interactions.
12. PONCE, E., K. Pelz, and C. López. 2004. Abundancia del coyote (*Canis latrans*) en relación con las características del hábitat en la sierra San Luís, Sonora, México. VII National conference in Mammalogy. November 8-12. San Cristóbal de las Casas, Chiapas.
13. Pelz K., E. PONCE, and C. López. 2004. Caracterización del hábitat y abundancia del castor (*Castor canadensis*) en la Sierra San Luís, Sonora, México. VII National conference in Mammalogy. November 8-12. San Cristóbal de las Casas, Chiapas.
14. PONCE, E., K. Pelz, and C. López. 2004. Coyote abundance in relation to the habitat characteristics in Sierra San Luis, Sonora, México. Biodiversity and Management of the Madrean Archipelago II and 5<sup>th</sup> Conference on Research and Resource Management in the Southwestern Deserts. May 11-15. Tucson, AZ.



15. Pelz K. S., E. PONCE, and C. G. López. 2004. Habitat and conservation status of the beaver (*Castor canadensis*) in the Sierra San Luis, Sonora, México. Biodiversity and Management of the Madrean Archipelago II and 5<sup>th</sup> Conference on Research and Resource Management in the Southwestern Deserts. May 11-15. Tucson, AZ.

#### **NOMINATIONS AND GRANTS**

- Student grant from National Council of Science and Technology. 2010 to present
- Nomination to Youth Rolex Awards for Enterprise 2010
- T & E Inc. Grant for Conservation Biology Research Program. 2006-2008