

Career Goal: To develop novel and scientific based conservation strategies for threatened species by filling the knowledge gap on their natural history and by combining ecological and geographical analysis tools.

Research interests: Mammal ecology, Mammal biogeography, Wildlife conservation and management.

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Education

- Ph.D. Biodiversity Management. Durrell Institute of Conservation and Ecology (DICE), University of Kent, Canterbury, United Kingdom, 2006.
- BSc. Biology. Universidad de los Andes, Bogotá, Colombia, 1996

Technical Skills

Informatics and Statistical Analysis

- R statistical programming language for modeling, data analysis, and spatial data.
- Species distribution modeling: Maxent, GARP, ENFA, GLM.
- Density, abundance, and occupancy methods using imperfect detection models.
- Experience analyzing GPS telemetry and camera trapping data.
- Networks and agent based modeling – Software: Pajek, NetLogo.
- Data and information acquisition strategies from free and open access biodiversity databases.

Geographic Information Systems

- Geographic Information Systems - Softwares: ArcGis, Erdas, QGIS, R.
- Management of GPS and GPS-obtained data.
- Remote sensing analysis. Satellite images: ALOS, Landsat, MODIS, SPOT, ASTER and SRTM for Digital Elevation Models.
- Geostatistical methods for environmental variables modeling.
- Gap analysis and conservation planning. Software: Marxan.

Work

2012-2013 Visiting Research Fellow, TEAM, SK-Tropical Ecology Assessment & Monitoring. Conservation International. 2011 Crystal Drive, Suite 500. Arlington, VA 22202. Assistance analyzing camera trap data using hierarchical modeling with the R statistical language and JAGS.

2012-June World Bank Consultant. Analyzing annual vegetation cover changes (2000-2010) using MODIS Satellite Images, for the protected areas; Pench, Periyar, Palamau, Buxa, Ranthambhore, and Kanha in India.

2006-2012 Assistant Professor and Director of the Research Group in Ecology and Biogeography. Universidad de Pamplona, Pamplona, Norte de Santander. Colombia. **Courses taught:** Evolution, Biogeography, Vertebrate Biology, and Conservation Biology

1997-2000 Research Assistant: Mountain Tapir Project, Colombia. Universidad de los Andes, Wildlife Conservation Society (WCS), & Corporación Autónoma Regional del Risaralda (CARDER). Director: Jaime Cavelier, Ph.D.

Prizes and honors

- Mountain Tapir Coordinator. IUCN/SSC Tapir Specialist Group (TSG). 2006-2012.
- Country coordinator. IUCN/SSC Tapir Specialist Group (TSG). 2005.
- UCN/SSC Deer Specialist Group member. 2006-2012.
- Prize "Alexander von Humboldt". 1997. Best talk "Activity Patterns of Mountain Tapirs in Los Nevados National Park", 1st Colombian Conference of Conservation Biology.

Funded Projects

- Modeling the distribution of Terrestrial Mammals in Colombia. 2010-2011. Universidad de Pamplona, Colombia, US \$7000.
- Conservation planning of tropical dry forests in Cucuta Norte de Santander, Colombia. 2010-2012. Universidad de Pamplona, US \$8000.
- Population and habitat status of the spider monkey *Ateles hybridus* in Tama National Park, Colombia. 2010-2012. Universidad de Pamplona, Colombia, US \$6000.
- Ecology and conservation of Mountain Tapirs in the Central Andes of Colombia. 2005-2006. American Association of Zoos and Aquarium (AZA), US\$ 24000.
- Local perceptions and Habitat suitability for mountain tapirs in the Colombian coffee growing region. 2004-2005. Instituto Alexander von Humboldt, US\$ 3.500.
- Ecology and Conservation of the Mountain Tapir in the Central Andes of Colombia. 2003-2004. Rufford Small Grant, US\$ 10000.
- Feeding strategy of mountain tapirs in the Central Andes of Colombia. 2003-2004. Conservation International Colombia, US\$ 1.500.
- Distribution, population size and activity pattern of mountain tapirs (*Tapirus pinchaque*) in Colombia. 1998-1999. Banco de la Republica, Colombia, US\$ 8000.

Directed projects, Universidad de Pamplona, Colombia

- Seed dispersal by little chachalacas (*Ortalis motmot*) in Pamplona, Norte de Santander. 2010-2012. Research assistant: Yissel Rivera. Funding: Fundacion Colombia Biodiversa.
- Distribution and niche modeling of mammals in Colombia. 2010-2011. Research Assistant: Jeniffer Rojas. Funding: Universidad de Pamplona.
- Roost use by bats in Estoraques National Sanctuary, Colombia. 2009-2010. Research Assistant: Liceth Suarez-Payares. Funding: Area Natural Unica Los Estoraques.
- Habitat use by the rodent *Dasyprocta punctata* in Chinacota, Colombia. 2009-2010. Research Assistant: Javier Morantes.
- Density of the Wattled guan (*Aburria aburri*) at Tama National Park. 2009-2010. Research Assistant: Viviana Berrio. Funding: Idea Wild.
- Matting behavior and population dynamics of the bat *Carollia brevicauda* in an artificial roost of Bochalema, Norte de Santander. 2008-2009. Research Assistants: Diego R. Gutierrez, Arley Gallardo.
- Density of the blue-helmeted curassow (*Pauxi pauxi*) at Tama National Park. 2008-2009. Research Assistant: Victor Setina-Liz. Funding: Conservation International Colombia, Universidad de Pamplona, Cleveland Zoo.
- Mutualistic relationships between *Anoura geoffroyi* and plants of Pamplona. 2007-2008. Research Assistant: Magda Bermúdez. Universidad de Pamplona, Colombia.
- Habitat use of the frog *Dendrosophus labialis* in two ponds of Universidad de Pamplona, Colombia. 2006-2007. Research Assistants: Paola Gómez, Nayary Villamizar.
- Diet of frugivorous bats in Villa Marina, Norte de Santander. 2006-2007. Research Assistant: Maryory Santiz.
- Bat diversity at Villa Marina, Norte de Santander. 2006-2007. Research Assistants: Jessica Villamizar, Tatiana Parra.

Publications

Journal Papers

- Ahumada, J.A., Hurtado, J. & **Lizcano, D.** (2013). Monitoring the Status and Trends of Tropical Forest Terrestrial Vertebrate Communities from Camera Trap Data: A Tool for Conservation. *PLoS One*, 8, e73707.
- Setina V., **Lizcano D. J.**, Brooks D. M. and Silveira L. F. (2012). Population density of Helemeted Curassow (*Pauxi pauxi*) in Tama National Park, Colombia. *The Wilson Journal of Ornithology*. 124 (2): 316 – 320.
- Suárez-Payares, L. M., & **Lizcano, D. J.** (2011). Roost use by bats (Chiroptera: Phyllostomidae) in the Natural Area Los Estoraques, Norte Santander, Colombia. *Mastozoologia Neotropical*, 28(2): 259-270. [In Spanish]
- Lizcano, D. J.**, & Cavelier, J. (2004). Using GPS collars to study mountain tapirs (*Tapirus pinchaque*) in the Central Andes of Colombia. *Tapir Conservation*, 13(2): 18-23.
- Lizcano, D. J.**, and J. Cavelier. 2004. Características químicas de salados y hábitos alimenticios de la danta de montaña (*Tapirus pinchaque* Roulin, 1829) en los Andes Centrales de Colombia. *Mastozoologia Neotropical* 11:193-201. [in Spanish]
- Lizcano, D. J.**; Pizarro, V.; Cavelier, J. & Carmona, J. (2002). Geographic Distribution and Population Size of the Mountain Tapir (*Tapirus pinchaque*) in Colombia. *Journal of Biogeography* 29(1): 7-16.
- Lizcano, D. J.** & Cavelier, J. (2000). Activity Patterns of Mountain Tapir (*Tapirus pinchaque*) in the Central Andes of Colombia. *Journal of Zoology* 252: 429-435.
- Lizcano, D. J.** & Cavelier, J. (2000). Densidad Poblacional y Disponibilidad de Hábitat de la Danta de Montaña (*Tapirus pinchaque*) en los Andes Centrales de Colombia. *Biotropica* 32: 165-173.

Book Chapters

- Cavelier, J., **Lizcano, D. J.**, Yerena, E., & Downer, C. (2011). The mountain tapir (*Tapirus pinchaque*) and Andean bear (*Tremarctos ornatus*): two charismatic large mammals in South American tropical mountain cloud forest. In L. A. Bruijnzeel, F. N. Scatena, & L. S. Hamilton (Eds.), *Tropical Montane Cloud Forests* (pp. 172-181). New York: Cambridge University Press.
- Lizcano, D. J.**, Alvarez, S. J., & Delgado-V, C. (2010). DWARFT RED BROCKET *Mazama rufina* (Pucheran 1951). In J. M. B. Duarte & S. González (Eds.), *Neotropical Cervidology: Biology and Medicine of Latin American Deer* (pp. 177-180). Jaboticabal, Brazil: Funep.
- Lizcano, D. J.**, Yerena, E., Alvarez, S. J., & Dietrich, J. R. (2010). MÉRIDA BROCKET *Mazama bricenii* (Thomas 1908). In J. M. B. Duarte & S. González (Eds.), *Neotropical Cervidology: Biology and Medicine of Latin American Deer* (pp. 181-184). Jaboticabal, Brazil: Funep
- Lizcano, D. J.**, A. Guarnizo, J. A. Suarez, F. K. Florez, and O. Montenegro. (2006). Danta de paramo *Tapirus pinchaque*. in J. V. Rodriguez-Maecha, M. Alberico, F. Trujillo, and J. Jorgenson, editors. Libro rojo de los mamíferos de Colombia. Serie libros rojos de especies amenazadas de Colombia. Conservación Internacional, Colombia & Ministerio de Ambiente, Vivienda y Desarrollo Territorial, Bogota, Colombia. [in Spanish]
- Delgado-V, C. A., and **D. J. Lizcano**. (2006). Venado conejo *Pudu mephistophiles*. in J. V. Rodriguez-Maecha, M. Alberico, F. Trujillo, and J. Jorgenson, editors. Libro rojo de los mamíferos de Colombia. Serie libros rojos de especies amenazadas de Colombia. Conservación Internacional, Colombia & Ministerio de Ambiente, Vivienda y Desarrollo Territorial, Bogota, Colombia. [in Spanish]
- Constantino, E., **D. J. Lizcano**, O. Montenegro, and C. L. Solano. (2006). Danta comun *Tapirus terrestris*. in J. V. Rodriguez-Maecha, M. Alberico, F. Trujillo, and J. Jorgenson, editors. Libro rojo de los mamíferos de Colombia. Serie libros rojos de especies amenazadas de Colombia. Conservación Internacional, Colombia & Ministerio de Ambiente, Vivienda y Desarrollo Territorial, Bogota, Colombia. [in Spanish]
- Cavelier, J.; **Lizcano, D. J.** & Pulido, M. T. (2001). Bosques de Montaña, Colombia. In: Kappelle, M. & Brown, A. (Eds.). *Bosques Neotropicales de Montaña*. INBio, World Conservation Monitoring Center, World Conservation Union, San Jose, Costa Rica. [in Spanish]