



Diego J. Lizcano

BIODIVERSITY SPECIALIST · BIODIVERSITY MONITORING CONSULTANT

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"The mountains are calling and I must go. - John Muir"

Education

University of Kent (United Kingdom), Durrell Institute of Conservation and Ecology (DICE)

Canterbury, Kent, UK

PH.D. IN BIODIVERSITY MANAGEMENT

2001 - 2006

- Ecology and conservation of large mammals in the tropical Andes
- Supervisor: Richard E. Bodmer, Ph.D.
- Examiner: Carlos Peres, Ph.D., East Anglia University, UK

Universidad de los Andes

Bogotá, Colombia

B.SC. IN BIOLOGY

1990 - 1996

- Supervisor: Jaime Cavelier, Ph.D.
- Work with mountain tapirs estimating density and distribution in Colombia

Short Courses

Bat Detecting and Acoustics Analysis

Bogotá, Colombia

INSTRUCTORS: CHRIS CORBIN PH.D.

January 2019

- Introduced to bat monitoring using Anabat sensors, data recording, zero crossing files and species identification

Bat Acoustics Training and Analysis

Knoxville, TN, USA

INSTRUCTORS: MICHAEL FISHMAN, KATIE O'CONNOR PH.D. PRESCOTT WELDON PH.D.

October 2017

- Introduced to bat monitoring using bioacoustics (Wildlife Acoustics Sensors), data techniques and species identification

Occupancy modeling in BUGS/JAGS and unmarked. Applied hierarchical modeling in ecology using BUGS, JAGS and R

Patuxent, MD, USA

INSTRUCTORS: MARC KERY, PH.D. AND ANDY ROYLE, PH.D.

March 2013

- Introduced to advanced techniques in occupancy modeling, abundance estimation, and spatial capture recapture, using Bayesian statistics and R

Training in Geographic Information Systems for Wildlife Conservation (Wildlife Conservation Society)

Bronx, New York, USA

INSTRUCTORS: ERIC SANDERSON, PH.D. AND GILLIAN WOOLMER PH.D

2000

- Introduced to mapping techniques, spatial analysis and geo-databases using Esri software

Skills

Programming

R (advanced), Python (intermediate), LaTeX, SQL, PHP (beginner)

Web

HTML5, Shiny, Markdown, Jupyter Notebooks

O. System

Windows, Linux, Mac OS, Raspbian, Raspberry Pi OS

Languages

English, Spanish (Native), Portuguese (Lecture)

Software

MaxEnt, MARXAN, Zonation, NetLogo, Miradi

GIS

ArcGis, Erdas Imagine, QGIS, GRASS GIS, PostGIS, R

Wildlife Tools

GPS, Telemetry VHF-GPS, Data Loggers, Camera Traps, Bioacoustics (bats, birds, insects)

Micro-controllers

Ardiuno, NodeMcu (ESP8266, ESP32), D1 mini, Raspberry Pi PICO

Science Communication

Red Verde columnist, "La Silla Vacía"

Experience

The Nature Conservancy (TNC)

Bogotá, Colombia

BIODIVERSITY SPECIALIST FOR NORTHERN ANDES

Oct. 2016 - July 2020

- Tasks: Biodiversity Monitoring for Projects in the Northern Andes and Southern Central America (NASCA)
- Sustainable Cattle Ranching Project: Several techniques and technologies monitoring birds, bats, dung beetle and plants in Meta, Risaralda, Atlántico, Guajira and Santander
- Agroforestry for Conservation Project: Monitoring terrestrial vertebrates using camera traps in indigenous and "campesino" territories of Caquetá
- Green Growth Compact Meta Project: Monitoring fire effect on biodiversity in Manacacias, Meta
- Responsibility: Supervising two TNC employees, supervising five consultant organizations, equipment acquisition and relationship with local universities

Central Research Department (DCI), Universidad Laica Eloy Alfaro de Manabí (ULEAM)

Manta, Manabí, Ecuador

RESEARCHER TYPE III

Sep. 2014 - Oct. 2016

- Director of the project: Wildlife in Protected and Framented Areas of Manabí, Ecuador.
- Tasks: Personnel management, equipment acquisition and scientific production.
- Project Website: <http://faunamanabi.github.io>
- Teaching: Ecology, Statistics

Conservation Strategy Fund

Washington DC, USA

RESEARCH FELLOW

Oct. 2013 - Sep. 2014

- Identification of theoretical and econometric models driving deforestation patterns.
- with an emphasis on institutional and government factors as underlying causes.
- <http://conservation-strategy.org/en/profile/diego-j-lizcano>

TEAM, Tropical Ecology Assessment and Monitoring at Conservation International

Arlington, VA 22202. USA.

VISITING SCIENTIST

Mar. 2012 - Oct. 2013

- Assistance analyzing camera trap data of five years from Costa Rica, using Bayesian statistical models and occupancy models. Support in species identification for TEAM network
- <http://www.teamnetwork.org/user/1082>

World Bank

Washington DC, USA

CONSULTANT

Jun. 2012 - Jul 2012

- Vegetation change analysis (2000-2010) using MODIS satellite images of product 44 for the protected areas: Pench, Periyar, Palamau, Buxa, Ranthambhore, and Kanha in India

Sciences Faculty, Universidad de Pamplona, Colombia

Pamplona, N. de Santander, Colombia

ASSISTANT PROFESSOR

Jan. 2006 - Feb. 2012

- Subject taught: Ecology, Evolution, Vertebrate Biology, Biogeography, Experimental Design
- 12 Undergrad Students Advised
- Research Group Director (5 year). Biology - Chemistry Department Director (1 year)

Biology Department, Universidad de los Andes

Bogotá, Colombia

RESEARCH ASSISTANT

Jan. 1997 - Dec. 2000

- Mountain Tapir Project under supervision of Jaime Cavelier, Ph.D.
- Funded by Corporación Autónoma Regional de Risaralda (CARDER), Wildlife Conservation Society (WCS), and Banco de la Republica

Honors & Awards

INTERNATIONAL

2000-2021 **IUCN/SSC Tapir Specialist Group (TSG)**, Mountain Tapir Coordinator

2006-2010 **IUCN/SSC Deer Specialist Group (DSG)**, Reporting on Mazama rufina

DOMESTIC

2019-2021 **Colombian Mammal Society "Sociedad Colombiana de Mastozoología"**, Vicepresident

Bogotá, Colombia

2019-2021 **Colombian Camera Trap Network "Red Colombiana de Fototrampeo"**, Director

Bogotá, Colombia

2019-2021 **Mammalogy Notes Journal**, Associate editor

Bogotá, Colombia

1997-1997 **Best Student Presentation**, First Colombian Congress of Conservation Biology

Cali, Colombia

- Suarez-Castro AF, Ramirez-Chaves HE, Noguera-Urbano EA, Velásquez-Tibatá J, González-Maya JF, **Lizcano DJ**. 2021. Vacíos de información espacial sobre la riqueza de mamíferos terrestres continentales de Colombia. *Caldasia*. 43(2 SE-). <https://doi.org/10.15446/caldasia.v43n2.85443>
- Morales Rozo A, **Lizcano DJ**, Montoya Arango S, Velasquez Suarez Á, Alvarez Daza E, Acevedo-Charry O. 2021. Diferencias en paisajes sonoros de sistemas silvopastoriles y potreros tradicionales del piedemonte llanero, Meta, Colombia. *Biota Colombiana*. 22(1SE):74–95. <https://doi.org/10.21068/c2021.v22n01a05>
- Martínez-Medina D, Sánchez J, Zurc D, Sánchez F, Otálora-Ardila A, Restrepo-Giraldo C, Acevedo-Charry O, Hernández Leal F, **Lizcano DJ**. 2021. Estándares para registrar señales de ecolocalización y construir bibliotecas de referencia de murciélagos en Colombia. *Biota Colombiana*. 22(1 SE-Artículos):36–56. <https://doi.org/10.21068/c2021.v22n01a03>
- Hernández Leal OF, Sánchez F, **Lizcano DJ**. 2021. Murciélagos insectívoros aéreos en un paisaje ganadero del piedemonte llanero colombiano. *Biota Colombiana*. 22(1 SE-Artículos):164–183. <https://doi.org/10.21068/c2021.v22n01a05>
- **Lizcano DJ**, Martínez-Medina D, Rodríguez-Posada ME, Otálora-Ardila A, Rojas-Rojas AV, Suárez-Castro AF, Ramírez-Chaves HE, González-Maya JF. 2020. Mamíferos, historia natural y colecciones. *Mammalogy Notes*. 6(2):201. <https://doi.org/10.47603/mano.v6n2.201>
- Montenegro, O. L., H. F. López-Arévalo, C. Mora-Beltrán, **D. J. Lizcano**, H. Serrano, E. Mesa, and A. Bonilla-Sánchez. 2019. Tropical Ungulates of Colombia. Pages 157–195 in S. Gallina-Tessaro, editors. *Ecology and Conservation of Tropical Ungulates in Latin America*. Springer International Publishing. NY.
- Pedraza, C., N. Clerici, C. Forero, A. Melo, D. Navarrete, **D. Lizcano**, A. Zuluaga, J. Delgado, and G. Galindo. 2018. Zero Deforestation Agreement Assessment at Farm Level in Colombia Using ALOS PALSAR. *Remote Sensing* 10:1464.
- Escribano-Avila, G., L. Cervera, L. Ordóñez-Delgado, A. Jara-Guerrero, L. Amador, B. Paladines, J. Briceño, V. Parés-Jiménez, **D. J. Lizcano**, D. H. Duncan, and C. Iván Espinosa. 2017. Biodiversity patterns and ecological processes in Neotropical dry forest: the need to connect research and management for long-term conservation. *Neotropical Biodiversity* 3:107–116.
- Cervera, L., **Lizcano, D.J.**, Parés-Jiménez, V., Espinoza, S., Poaquiza, D., De la Montaña, E., Griffith, D.M. 2016. A camera trap assessment of terrestrial mammals in Machalilla National Park, western Ecuador. *Check List* 12: 1868.
- **Lizcano, D.J.**, Cervera, L., Espinoza-Moreira, S., Poaquiza-Alava, D., Parés-Jiménez, V., Ramírez-Barajas, P.J. 2016. Medium and large mammal richness from the marine and coastal wildlife refuge of Pacoche, Ecuador. *Therya* 7: 137-145.
- Cervera, L., **Lizcano, D.J.**, Tirira, D.G., Donati, G. 2015. Surveying two endangered primate species (*Alouatta palliata* aequatorialis and *Cebus aequatorialis*) in the Pacoche Marine and Coastal Wildlife Refuge, West Ecuador. *International Journal of Primatology*.
- Ortega-Andrade, H. M., D. A. Prieto-Torres, I. Gómez-Lora, and **D. J. Lizcano**. 2015. Ecological and Geographical Analysis of the Distribution of the Mountain Tapir (*Tapirus pinchaque*) in Ecuador: Importance of Protected Areas in Future Scenarios of Global Warming. *PLoS ONE* 10:e0121137.
- **Lizcano, D. J.**, J. A. Ahumada, A. Nishimura, and P. R. Stevenson. 2014. Population Viability Analysis of Woolly Monkeys in Western Amazonia. in press in T. Defler and P. R. Stevenson, editors. *The Woolly Monkey*. Springer, New York.
- Gallardo, A. O., and **D. J. Lizcano**. 2014. Organización social de una colonia del murciélago *Carollia brevicauda* en un refugio artificial, Bochalema, Norte de Santander, Colombia. *Acta Biológica Colombiana* 19:113 121.
- Ahumada, J. A., J. Hurtado, and **D. Lizcano**. 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., **D. J. Lizcano**, D. M. Brooks, and L. F. Silveira. 2012. Population density of the helmeted curassow (*Pauxi pauxi*) in Tamá National Park, Colombia. *The Wilson Journal of Ornithology* 124:316 320.
- Cavelier, J., **D. J. Lizcano**, E. Yerena, and C. Downer. 2011. The mountain tapir (*Tapirus pinchaque*) and Andean bear (*Tremarctos ornatus*): two charismatic large mammals in South American tropical mountain cloud forest. Pages 172–181 in L. A. Bruijnzeel, F. N. Scatena, and L. S. Hamilton, editors. *Tropical Montane Cloud Forests*. Cambridge University Press, New York.
- Suárez-Payares, L. M., and **D. J. Lizcano**. 2011. Uso de refugios por tres especies de murciélagos filostómidos (Chiroptera: Phyllostomidae) en el Área Natural Única Los Estoraques, Norte de Santander, Colombia. *Mastozoología Neotropical* 28:259 270.
- **Lizcano, D. J.**, S. J. Alvarez, and C. Delgado-V. 2010. DWARFT RED BROCKET *Mazama rufina* (Pucheran 1951). Pages 177 180 in J. M. B. Duarte and S. González, editors. *Neotropical Cervidology: Biology and Medicine of Latin American Deer*. Funep, Jaboticabal, Brazil.
- **Lizcano, D. J.**, E. Yerena, S. J. Alvarez, and J. R. Dietrich. 2010. MÉRIDA BROCKET *Mazama bricenii* (Thomas 1908). Pages 181 184 in J. M. B. Duarte and S. González, editors. *Neotropical Cervidology: Biology and Medicine of Latin American Deer*. Funep, Jaboticabal, Brazil.
- **Lizcano, D. J.**, and J. Cavelier. 2004b. Using GPS collars to study mountain tapirs (*Tapirus pinchaque*) in the Central Andes of Colombia. *Tapir Conservation* 13:18–23.
- **Lizcano, D. J.**, and J. Cavelier. 2004a. Características químicas de salados y hábitos alimenticios de la danta de montaña (*Tapirus pinchaque* Roulin, 1829) en los Andes Centrales de Colombia. *Mastozoología Neotropical* 11:193 201.
- **Lizcano, D. J.**, and A. Sissa. 2003. Notes on the distribution and conservation status of mountain tapir (*Tapirus pinchaque*) in north Peru. *Tapir Conservation* 12:21 24.
- **Lizcano, D. J.**, V. Pizarro, J. Cavelier, and J. Carmona. 2002. Geographic distribution and population size of the mountain tapir (*Tapirus pinchaque*) in Colombia. *Journal of Biogeography* 29:7 15.
- **Lizcano, D. J.**, and J. Cavelier. 2000. Densidad poblacional y disponibilidad de hábitat de la danta de montaña (*Tapirus pinchaque*) en los Andes Centrales de Colombia. *Biotropica* 32:165 173.
- **Lizcano, D. J.**, and J. Cavelier. 2000. Daily and seasonal activity of the mountain tapir (*Tapirus pinchaque*) in the Central Andes of Colombia. *Journal of Zoology* 252:429 435.