



Diego J. Lizcano

BIODIVERSITY SPECIALIST · BIODIVERSITY MONITORING AWAKE TRAVEL

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"There is no first world and third world. There is only one world, for all of us to live and delight in."
Gerald Durrell

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., DICE, University of Kent, UK
- Examiners: Carlos Peres Ph.D., East Anglia University, UK; Nigel Leader-Williams Ph.D., University of Cambridge, UK

Universidad de los Andes

Bogotá, Colombia

B.Sc. IN BIOLOGY

1990 - 1996

- Studied mountain tapirs estimating density and distribution in Colombia
- Supervisor: Jaime Cavellier Ph.D.

Short Courses

Bat Detecting and Acoustics Analysis

Bogotá, Colombia

INSTRUCTOR: CHRIS CORBIN PH.D., ANABAT

January 2019

- Bat monitoring using Anabat sensors, data recording, zero crossing files, species identification, and Anabat software

Bat Acoustics Training and Analysis

Knoxville, TN, USA

INSTRUCTORS: MICHAEL FISHMAN, KATIE O'CONNOR PH.D., PRESCOTT WELDON PH.D., ERM - UNIVERSITY OF TENNESSEE

October 2017

- Bat monitoring using bioacoustics (Wildlife Acoustics Sensors), data analysis techniques, and species identification

Animal Movement for Conservation

Cartagena, Colombia

INSTRUCTORS: ELIEZER GURARIE PH.D. AND SILVIA ALVAREZ PH.D., UNIVERSITY OF MARYLAND

July 2017

- New R tools for data management and visualization of movement data

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

Laurel, MD, USA

INSTRUCTORS: MARC KERY PH.D. AND ANDY ROYLE PH.D., USGS PATUXENT WILDLIFE RESEARCH CENTER

March 2013

- Advanced techniques for occupancy modeling, abundance estimation, and spatial capture recapture, using Bayesian statistics and R

Interdisciplinary applications of complex systems

Cúcuta, Colombia

INSTRUCTORS: MARIO G. COSENZA PH.D. AND KAY A. TUCCI-KELLERER PH.D., UNIVERSIDAD DE LOS ANDES MÉRIDA,

May 2011

VENEZUELA; UNIVERSITY OF AUSTIN

- Concepts and methods in complex systems and networks, sociodynamics and socioecology

Training in Geographic Information Systems for Wildlife Conservation

Bronx, New York, USA

INSTRUCTORS: ERIC SANDERSON PH.D., AND GILLIAN WOOLMER PH.D., WILDLIFE CONSERVATION SOCIETY

2000

- Mapping techniques, spatial analysis and geo-databases using Esri Software

Research Design in Conservation Biology

Villa de Leyva, Colombia

INSTRUCTORS: PETER FEINSINGER PH.D., AND CAROLINA MURCIA PH.D., NORTHERN ARIZONA UNIVERSITY, WILDLIFE CONSERVATION SOCIETY

1997

- Planning field research, statistical methods, and inquiry cycle to answer questions in conservation biology

Skills

Programming	R (advanced), Python (intermediate), LaTeX, SQL
Web	HTML5, Shiny, Markdown, Jupyter Notebooks
O. System	Windows, Linux, Mac OS, Raspbian, Raspberry Pi OS
Languages	English, Spanish (Native)
Software	MaxEnt, MARXAN, Zonation, NetLogo, Miradi
GIS	ESRI ArcGis, Erdas Imagine, QGIS, 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. Occasional columnist of "La Silla Vacía"

Work Experience

Awake Travel

Bogotá, Colombia

BIODIVERSITY MONITORING LEADER

Mar. 2021 - Present

- Design and implement a participatory biodiversity monitoring program using acoustic and camera trapping methods to model the effect of nature tourism on biodiversity.
- Responsibility: Supervise three local biodiversity experts, design and lead training workshops for local hosts, design virtual courses, equipment acquisition, deployment of monitoring devices, and data analysis of 30 camera traps and 100 Audiomoth recorders in 27 nature tourism destinations from in Cauca, Choco, Valle del Cauca, Meta, and Casanare.
- For further details and references see:
 - <https://monitoreo-acustico.netlify.app>
 - <https://awakeacoustics.github.io/AwakeAcoustics>
 - https://dlizcano.github.io/content/Guia-para-el-monitoreo-acustico-de-biodiversidad_Awake.pdf

Wildlife Conservation Society (WCS)

Cali, Valle del Cauca, Colombia

CONSULTANT

Oct. 2020 - Dic. 2020

- Analysis of three-years of camera trap data from Magdalena Valley and Vichada, to produce maps and activity patterns of several species in order to deliver two non-scientific publications for the "Proyecto Vida Silvestre".
- For further references see:
 - <https://dlizcano.github.io/content/FototrampeoLlanosWCS.pdf>

The Nature Conservancy (TNC)

Bogotá, Colombia

CONSULTANT

Aug. 2020 - Oct 2020

- Producing a Biodiversity monitoring protocol for agroforestry systems using camera trapping.
- Producing a guide on characteristic animals of Caquetá the piedmont.
- For further references see:
 - https://dlizcano.github.io/content/Protocolo_Monitoreo_Biodiversidad.pdf
 - <https://dlizcano.github.io/content/GuiaAnimalesCaqueta.pdf>

The Nature Conservancy (TNC)

Bogotá, Colombia

BIODIVERSITY SPECIALIST FOR THE NORTHERN ANDES

Oct. 2016 - July 2020

- Design and lead biodiversity monitoring programs for several projects in the Northern Andes and Southern Central America region.
- Implemented several techniques and technologies for biodiversity monitoring (birds, bats, dung beetles, plants, mangroves, and water quality).
- Responsibility: Proposal submissions (USAID, BID, Bobolink, Segre Foundation), supervising two TNC employees, supervising five consultant organizations, field equipment acquisition, and establishing relationships with local universities, Humboldt institute and National Parks.
- Projects involved:
 - Sustainable Cattle Ranching, funded by the Global Environmental Facility (GEF), the World Bank, and the UK Government.
 - Agroforestry for Conservation (Enabling conditions to reduce deforestation in the Colombian Amazon through sustainable agroforestry), funded by the International Climate Initiative (IKI).
 - Green Growth Compact Meta, funded by the Inter American Development Bank (IDB) and Bobolink Foundation.
 - Cartagena's Water Fund funded by Fundación Promotora del Canal del Dique and Fundación Grupo Argos.
- Supervisor: Thomas Walsburger Ph.D. (twalschburger@tnc.org)
- For further references see:
 - <https://bird-monitoring.netlify.app>
 - <https://youtu.be/gRmbdyK2nR8>
 - <https://youtu.be/btlm79OGymA>
 - <https://doi.org/10.15472/aep2fg>

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

Manta, Manabí, Ecuador

RESEARCHER TYPE III

Sep. 2014 - Oct. 2016

- Project director: Wildlife in Protected and Fragmented Areas of Manabí, Ecuador.
- Project responsibility: Supervising two biologists, a field assistant, and four undergrad students. Equipment acquisition, design camera deployment, technical reports for the park authorities, and scientific production (two scientific papers and species guides).
- Supervisor: Daniel Michael Griffith Ph.D. (dgriffith@utpl.edu.ec)
- 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 in the Colombian Amazon.
- Understanding the role of institutional and governance factors as underlying causes of deforestation.
- Analyzing the effects of complexity and institutional weakness on deforestation in the Andean Amazon.
- Supervisor: Alfonso Malky (alfonso@conservation-strategy.org)
- <https://conservation-strategy.org/en/profile/diego-j-lizcano>

Conservation International, Tropical Ecology Assessment and Monitoring Network (TEAM)

Arlington, VA, USA

VISITING SCIENTIST

Mar. 2012 - Oct. 2013

- Assistance analyzing five years of camera trap data from Costa Rica, using Bayesian statistics and occupancy models.
- Support the identification of Neotropical mammal species for TEAM.
- Products: Technical reports and scientific publications.
- Supervisor: Jorge Ahumada Ph.D. (jahumada@conservation.org)
- [https://app.wildlifeinsights.org/initiatives/2000017/Tropical-Ecology-Assessment-and-Monitoring-\(TEAM\)-Network](https://app.wildlifeinsights.org/initiatives/2000017/Tropical-Ecology-Assessment-and-Monitoring-(TEAM)-Network)

World Bank

Washington DC, USA

CONSULTANT

Jun. 2012 - Jul. 2012

- Vegetation change analysis (2000-2010) using MODIS satellite images with product 44 for the protected areas: Pench, Periyar, Palamau, Buxa, Ranthambhore, and Kanha in India
- Supervisor: Anupam Joshi Ph.D. and Jaime Cavelier Ph.D. (jcavelier@thegef.org)

Biology Department, Universidad de Pamplona, Colombia

Pamplona, Norte de Santander,
Colombia

ASSISTANT PROFESSOR

Jan. 2006 - Feb. 2012

- Teaching responsibility: Ecology, Evolution, Vertebrate Biology, Biogeography, Experimental Design, Paleontology, Conservation Biology.
- Research responsibility: Founder and director of the "Grupo de investigación en Ecología y Biogeografía (GIEB)". Currently categorized as "A" by Minciencias. <https://scienti.minciencias.gov.co/gruplac/jsp/visualiza/visualizagr.jsp?nro=00000000005546>
- Former website: <https://sites.google.com/site/giebupa/home>
- Achievements: 23 Undergrad Students Supervised, Research Group Director (5 years). Biology and Chemistry Department Director (1 year). Started the accreditation processes for the Biology and Chemistry programs.

Biology Department, Universidad de los Andes

Bogotá, Colombia

RESEARCH ASSISTANT

Jan. 1997 - Dec. 2000

- Mountain Tapir Project. Funded by Corporación Autónoma Regional de Risaralda (CARDER), Wildlife Conservation Society (WCS), and Banco de la República.
- Supervision: Jaime Cavelier, PhD.

Program Committees

Colombian Mammal Congress

Bogotá, Colombia

ORGANIZER AND SCIENTIFIC COMMITTEE DIRECTOR

Nov. 2021

- Responsibilities: Virtual event organization, funds raising, contact and invite key note speakers, abstracts review, program planning.
- <http://mamiferoscolombia.org/IVCCM>

Mammalogy Notes Journal

Bogotá, Colombia

ASSOCIATE EDITOR & WEBMASTER

Jun. 2019 - Present

- Reformed the journal to go open access focusing on natural history contributions by students and young professionals.
- Proposed various strategies and activities to raise the journal profile and to start getting it indexed in scientific databases and Pubindex.
- <https://mammalogynotes.org>

Colombian Mammal Society

Bogotá, Colombia

VICE PRESIDENT AND ACTIVE MEMBER

Jan. 2019 - Present

- Support the president in reforming the society to make it more open and inclusive.
- Organize the finances and the legal paperwork required by the Colombian commerce chamber for non-profit organizations.
- Organize and lead virtual courses on occupancy models, spatial analysis, scientific photography and R.

Colombian Camera Trap Network

Bogotá, Colombia

DIRECTOR

2018 - Present

- Networking to invite researchers to share data and expertise on camera trapping.
- Trained 75 people in three field courses.
- Network members have participated in three camera trapping symposiums carried out in the past Colombian Zoological Congresses
- <https://redfototrampeo.netlify.ap>
- Putting together a data paper (in press) on camera trapping of mammals in Colombia, in partnership with with Instituto Alexander von Humboldt and Asociación Colombiana de Zoología.

Teaching Experience

Tropical Biology: An Ecological Approach Course. Occupancy modeling workshop

Palo Verde, Costa Rica

INVITED AS FACULTY PROFESSOR BY OTS

June 2022

- Teaching statistical modeling and occupancy methods to students of American universities.
- Teaching materials:
 - <https://dlizcano.github.io/OTS/index.html>

Introduction to spatial data processing, visualization, and mapping in R

Virtual

TAUGHT WITH FELIPE SUÁREZ-CASTRO PH.D., UNIVERSITY OF GRIFFITH, AUSTRALIA

July 2022

- A two day workshop to learn the basics of data handling for spatial analysis using R and mammal data.
- Teaching materials:
 - https://afsuarezca.github.io/Intro_R_espacial/index.html

Dynamic occupancy models

Virtual

INVITED BY SALVADOR MANDUJANO PH.D., INECOL, MEXICO

July 2022

- A two day workshop to learn the basics of dynamic occupancy models with R, under the course "Fototrampeo en R y Ocupación" offered by INECOL and UNAM.
- Teaching materials:
 - <https://dlizcano.github.io/dynamic-occu/index.html>
 - <https://github.com/dlizcano/dynamic-occu>

Advanced course on biodiversity analysis using hierarchical models, occupancy, and population abundance

Tunja, Colombia

TAUGHT WITH BIBIANA GOMEZ-VALENCIA PH.D., INSTITUTO ALEXANDER VON HUMBOLDT

April 2020

- Course for Masters students at Universidad Pedagógica y Tecnológica de Colombia (UPTC), Tunja Boyaca.

Introduction to the occupancy models

Florencia, Piamonte

A FOUR DAY WORKSHOP TAUGHT YEARLY SINCE 2018 WITH SEVERAL INVITED PROFESSORS

2018, 2019, 2020, 2021

- Introductory concepts and simulations for a deep understand of the single season occupancy model, using R and JAGS
- Teaching materials:
 - https://dlizcano.github.io/IntroOccuPresent/index_ivccm
 - <https://dlizcano.github.io/IntroOccuBook>

Universidad Laica Eloy Alfaro de Manabí (ULEAM)

Manta, Ecuador

TEACHING TO UNDERGRADUATE STUDENTS

2015, 2016

- Teaching two years for undergraduate students. Introduction to population ecology and community ecology for the Environmental Engineering program, and statistics for Agrarian Sciences faculty.

Universidad de Pamplona, Colombia

Pamplona, N. de Sant. Colombia

TEACHING 6 YEARS TO UNDERGRADUATE AND MASTERS STUDENTS

2006 - 2012

- Courses: Ecology (4 semesters), Evolution (6 semesters), Vertebrate Biology (5 semesters), Biogeography (3 semesters), Experimental Design (2 semesters), Paleontology (1 semester), Conservation Biology (1 semester).

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 (SCMas)"**, Vicepresident.

Bogotá, Colombia

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

Cali, Colombia

Academic Committees

- 2020-2022 **Universidad de los Andes. Master's thesis co-advisor**, Juan Camilo Cepeda-Duque. "Determinantes ecológicos de la ocupación del tigrillo andino en bosques de niebla" *Bogotá, Colombia*
- 2018-2022 **Universidad de Antioquia. Ph.D. Thesis co-advisor**, Angelica Diaz-Pulido. "Biogeografía de la Conservación de mamíferos medianos y grandes de Colombia" *Medellin, Colombia*
- Sep. 2020 **Universidad Javeriana, Master's Thesis reviewer**, Gina Olarte. "Efectos de la estructura del paisaje en la abundancia de mamíferos terrestres en paisajes dominados por palma de aceite" *Bogotá, Colombia*
- 2016-2020 **Universidade Federal, Mato Grosso do Sul. Ph.D. Thesis Co-Director**, Isabel Melo. "Threshold of species loss on mammals and birds in the Cerrado" *Campo Grande, Brazil*
- 2018-2021 **Universidad Javeriana, Master's Thesis advisor**, Mauricio Alejandro Echeverry Duque. "Identificación de áreas para conservar la diversidad de aves en Colombia y su relación con los servicios ecosistémicos" *Medellin, Colombia*
- 2020-2021 **Universidad de los Llanos, Undergraduate Thesis advisor**, Angie Gabriela Moreno Carrillo. "Diversidad selección de hábitat y patrón de actividad de mamíferos terrestres en un sistema silvopastoril" *Villavicencio, Colombia*
- 2019-2020 **Universidad de los Llanos, Undergraduate Thesis co-advisor**, Orlando Fabián Hernández Leal. "Uso del espacio por murciélagos insectívoros aéreos en un paisaje ganadero del piedemonte llanero" *Villavicencio, Colombia*
- 2015-2016 **Peer Reviewer**, SENECYT. Prometeo porposals *Quito, Ecuador*
- Jul. 2014 **Peer Reviewer**, TogetherGreen Fellowship Program. National Audubon Society *Washington, DC*
- 2012-2014 **Peer Reviewer**, Colciencias. Calls: 451, 659 BIO - AMBIENTE *Bogota, Colombia*

Writing

General Public

2017 - Present

- Fototrampeo del proyecto Vida Silvestre en los Llanos Orientales (Orinoquia). 2020. This publication shows part of the results of the Wildlife Project (PVS in Spanish). For this publication I analyzed a 3 year data set, created the maps, made graphs and organized the ecological information. Available in: <http://dlizcano.github.io/content/FototrampeoLlanosWCS.pdf>
- Protocolo de Monitoreo de Biodiversidad. The Nature Conservancy and Amazon Conservation Team. 2019. This is a guide for people interested in designing or implementing camera trap-based biodiversity monitoring systems. This document was produced as part of the Agroforestry for Conservation Project Toolbox. Available in: <http://dlizcano.github.io/content/ProtocoloMonitoreoBiodiversidad.pdf>
- Animales característicos de la zona montañosa del Caqueta. The Nature Conservancy and Amazon Conservation Team. 2019. This guide was prepared by Natalia Gongora-Correa. I contributed with texts and advised on the design. Available in: <http://dlizcano.github.io/content/GuiaAnimalesCaqueta.pdf>
- Mantilla-Meluk, H., **D. Lizcano**, V. Díaz-Giraldo, F. Mosquera-Guerra, N. PérezAmaya y F. Trujillo. 2019. Plan de manejo para la conservación del venado soche (*Mazama rufina*) en el departamento del Quindío. Corporación Autónoma Regional del Quindío (CRQ), Armenia, Quindío, Colombia. 64 p. Available in: <https://crq.gov.co/wp-content/uploads/2021/03/PLANMANEJOLACONSERVDELVENADOSOCHE-comprimido.pdf>
- Mantilla-Meluk, H., F. MosqueraGuerra, F. Trujillo, **D.J. Lizcano**, S. Sandoval, T. M. González y M.C. Londoño. 2017. Plan de manejo para la conservación de la danta de montaña (*Tapirus pinchaque*) en el departamento del Quindío. Corporación Autónoma Regional del Quindío (CRQ), Armenia, Quindío, Colombia. 60 p. Available <http://dlizcano.github.io/content/plan-de-manejo-para-la-conservacion-de-la-danta-de-montana-quindio.pdf>
- D.J. Lizcano**. 2015. Effect of institutional complexity on deforestation in the Colombian Amazon 39 p. Available in: <https://www.conservation-strategy.org/publication/efecto-de-la-complejidad-institucional-sobre-la-deforestacion-en-la-amazonia-colombiana>
- Occasional writer for "Red Verde" in "La Silla Vacía" portal. I write about biodiversity and wildlife conservation for a wider public. <https://www.lasillavacia.com/la-silla-llena/expertos/perfil/3244>

- **Lizcano DJ**, Álvarez SJ, Díaz-Giraldo V, Gutierrez-Sanabria DR, Mantilla-Meluk H. 2021. Elevation as an occupancy determinant of the little red brocket deer (*Mazama rufina*) in the Central Andes of Colombia. *Caldasia*. 43(2 SE) 392–395. <https://doi.org/10.15446/caldasia.v43n2.85449>
- 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.v43n2.85444>
- 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>
- Martinez-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. https://doi.org/10.1007/978-3-030-28868-6_9
- 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. <https://doi.org/10.3390/rs10091464>
- 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. <https://doi.org/10.1080/23766808.2017.1298495>
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- **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. <https://doi.org/10.12933/therya-16-308>, ISSN 2007-3364
- 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*. <https://link.springer.com/article/10.1007/s10764-015-9864-y>
- 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. <https://doi.org/10.1371/journal.pone.0121137>
- **Lizcano, D. J.**, J. A. Ahumada, A. Nishimura, and P. R. Stevenson. 2014. Population Viability Analysis of Woolly Monkeys in Western Amazonia. in T. Defler and P. R. Stevenson, editors. *The Woolly Monkey*. Springer, New York. https://doi.org/10.1007/978-1-4939-0697-0_15
- 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. <https://doi.org/10.1371/journal.pone.0073707>
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- 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, eds. *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, eds. *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.
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