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Liliana M. Dávalos-Álvarez

Experience

- Fall 2008-
Current **State University of New York at Stony Brook, USA**
Assistant Professor (2008-2014), Associate Professor (2014-present): Department of Ecology and Evolution, Consortium for Inter-Disciplinary Environmental Research
- Vertebrate evolution and environmental change
- 2007-Current **American Museum of Natural History, New York, USA**
Research Associate, Division of Vertebrate Zoology
- 2007-2008 **Open University, Milton Keynes, UK**
Lecturer (US equivalent: Assistant Professor): Molecular Ecology
- Historical and ecological biogeography, malaria parasite genetics
- 2005-2006 **Columbia University, New York, USA**
Instructor, Department of Ecology, Evolution, and Environmental Biology (E3B)
- Evolution: from Darwin to DNA
- 2005-2006 **American Museum of Natural History, New York, USA**
Postdoctoral Research Associate, Susan L. Perkins, PI
- Phylogenomics of malaria parasites
- 2004-2005 **Ochman-Moran Laboratory, University of Arizona, Tucson, USA**
Postdoctoral Research Associate, Howard Ochman, PI
- *E. coli* pseudogene acquisition, evolution, and loss
- 1998-2004 **Columbia University and American Museum of Natural History, New York, USA**
Graduate Fellow in Ecology, Evolution and Environmental Biology, Nancy B. Simmons, PI
- Comparative phylogenetics and biogeography of Caribbean mammals
 - GIS-based research into the effect of armed conflict and environmental policy on biodiversity conservation
 - Organized, raised funds, led, and conducted bat collecting surveys in Tambito (Colombia), Jamaica, the Dominican Republic, Trinidad, and Cat Island (Bahamas)
 - Teaching assistant: Field Ornithology, People and the Environment
- 1997-1998 **Colombia '98 Expedition**
Field Researcher
- Organized, raised funds, and conducted field ornithology survey at Serranía de los Churumbelos, site declared National Natural Park Serranía de los Churumbelos Awka Wasi on 30 August 2007 based partly on this expedition
 - First biologist to visit the Serranía de San Lucas in 50 years, site proposed as National

Current 5/13/16

- Natural Park Serranía de San Lucas in 2010 based partly on this reconnaissance survey
- Research assistant for “Avifauna of Tambito and Munchique”, endorsed by the Cambridge Expedition Committee and Museo de Historia Natural (Universidad del Cauca), Popayán
- 1996-1997 **Universidad del Valle and Centro Internacional de Agricultura Tropical (CIAT), Cali, Colombia**
Undergraduate fellow at the Biotechnology Research Unit
- RFLP study of resistance to Hoja Blanca virus (HBV) in rice
- 1994-1996 **Universidad del Valle, Cali, Colombia**
Teaching Assistant
- Three courses: Ecology, Evolution, and Quantitative Genetics

Education

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|-----------|---|--|
| 2001-2004 | Columbia University, Graduate School of Arts and Sciences | PhD NSF-funded DDIG: Historical biogeography of the Antilles: Earth history and phylogenetics of endemic Chiropteran taxa |
| 1998-2001 | Columbia University, School of International and Public Affairs | Certificate in Environmental Policy Studies: access to genetic resources under the Convention on Biological Diversity (CBD) |
| 1998-2000 | Columbia University, Graduate School of Arts and Sciences | MA Ecology and Evolutionary Biology |
| 1991-1997 | Universidad del Valle | BSc Thesis: Molecular markers associated to resistance to the Hoja Blanca virus [HBV] in rice (<i>Oryza sativa</i> , L) |

Grant funding (Last 5 years)

- 2015 “Dimensions Broadening Participation Research Experience for Undergraduates” PI, National Science Foundation, \$19,294 total.
- 2015-2018 “Chance or necessity? Adaptive vs. non adaptive evolution in plant-frugivore interactions” PI, National Science Foundation, \$246,000 to SBU, \$796,000 total.
- 2014-2019 “Discovering genomic and developmental mechanisms that underlie sensory innovations critical to adaptive diversification”, PI, National Science Foundation, \$660,285 to SBU, \$1,911,615 total.
- 2014-2016 “Uncovering skin immune proteins as predictors of resistance to WNS”, co-PI (PI is postdoctoral researcher Marianne Moore), US Fish and Wildlife, \$326,677 total.
- 2010-2014 “Phylogeny and rates of evolution in an ecologically hyperdiverse mammalian radiation (Chiroptera: Noctilionoidea)”, PI, National Science Foundation, \$254,490 to SBU, \$484,409 total.

Honors and Awards (Last 5 years)

- 2016 College of Arts and Sciences Teaching Excellence Award for outstanding teaching and true caring for students in and outside of the classroom
- 2013 Certificate of Excellence in Reviewing, *Molecular Phylogenetics and Evolution*, Elsevier
- 2013 Kavli Frontiers of Science Symposium fellow
- 2012-2013 National Academy of Sciences Education Fellow in the Life Sciences

Invited Talks (Last 3 years)

- 28 May, 2015 *Una estaca al corazón de los refugios pleistocénicos*. Universidad Nacional Mayor de San Marcos, Lima, Peru.
- March 17, 2015 *Cómo apoyan los modelos matemáticos a la conservación*. Plagiodontia Seminar Series. Museo Nacional de Historia Natural Profesor Eugenio De Jesús Marcano, Santo Domingo, Dominican Republic.
- December 17, 2014 *Systematic Error and the Contours of a Theory of Macroevolution*. Watson Armour-III Research Seminar Series. Field Museum, Chicago, Illinois. Also on 24 February 2015 at the EEB Tuesday seminar series at Brown University.
- April 10, 2014 *So many different kinds of mistakes: why systematic error is the 21st century's sampling error*. Biology Seminar. Grand Valley State University, Allendale, Michigan.
- June 8, 2013 *Markets for beef, markets for land, and why we have to look way beyond coca to understand coca*. Left Forum session on Drug War and the Environment in Latin America. Pace University, New York, New York.
- April 8, 2013 *The right answers to the wrong questions*. Biology Seminar. University of Miami, Coral Gables, Florida.

Conference Presentations (Last 3 years)

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- October 31, 2015 *The Importance of Method: Lots of Phylogenetic Signal, Lots of Problems*. Coauthored with P. Velazco and E. Gutiérrez. 45th Annual North American Symposium on Bat Research, 28-31 October 2015 Monterey, California.
- June 15, 2015 *The last ones standing: why mammalogists should care about Caribbean bats*. Coauthored with D. Rojas. [American Society of Mammalogy meeting](#), 12-16 June Jacksonville, Florida.
- January 9, 2015 *The elusive case for neotropical refugia*. Coauthored with D. Rojas and O.M. Warsi. [7th International Conference of the International Biogeographic Society](#), 8-12 January Bayreuth, Germany.
- October 24, 2014 *Integrating Population Genetic and Quantitative Genetic Models Reveals Selection in Echolocation*. Coauthored with W.C. Lancaster, B. Lei, J. Flanders, and A.L. Russell. 44th Annual North American Symposium on Bat Research, 22-25 October 2014 Albany, New York.
- June 22, 2014 *Biting into it: Occlusion and development force correlations and anticorrelations in dental characters*. Coauthored with O.M. Warsi, E. Li, S. Gochman, N.B. Simmons, and P.M. Velazco. [Evolution Conference, 20-24 June. Raleigh, North Carolina](#).
- July 13, 2013 *Lying through your Teeth: Non-independence and Convergence Mismatch Morphological Phylogenetics of Phyllostomids*. Coauthored with P.M. Velazco, O.M. Warsi, Peter D. Smits, and N.B. Simmons. 16th International Bat Research Conference, 11-15 August. San José, Costa Rica.
- June 25, 2013 *Lying through your teeth: saturation and non-independence in morphological data, and what to do about it*. Coauthored with P.M. Velazco, O.M. Warsi, P.D. Smits, and N.B. Simmons. Evolution Conference, 21-25 June. Snowbird, Utah.
- January 13, 2013 *Long-term disequilibrium and short-term equilibrium dynamics in West Indian biogeography*. Coauthored with A.L. Russell. [6th International Conference of the International Biogeographic Society](#), 9-13 January Miami, Florida.

Laboratory Skills

- DNA and RNA extraction, primer design
- PCR technology and troubleshooting, PCR-based cloning, quantitative PCR
- Purification, re-amplification, cycle-sequencing, and automated sequencing of targeted products

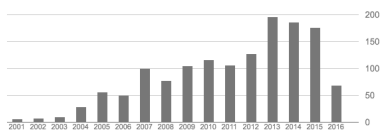
Computer Skills

- At ease on Unix, Windows, and Macintosh platforms
- Bioinformatics: PERL/BioPERL, MySQL, R statistical language, Jags
- Biostatistics: SPSS, SAS
- GIS: ArcGIS, relevant R packages
- Illustrator, Photoshop, Acrobat, Microsoft Office suite, local and web applications
- Phylogenetics, & molecular evolution: Arlequin, Autodecay, Beast, Beauti, Blastalign, BLAST, Component, Clustal, Dambe, diva, Diva-GIS, Foldalign, Garli, IM, Muscle, MacClade, Mafft, Maxent, Mega, Mesquite, Modeltest, MrBayes, Paup*, PETfold, Pfold, Phylip, Phym1, Sequin, Sequencher, Tracer, Vienna RNA package

Language Skills

- First language: Spanish
- Most fluent in: English
- Working knowledge in: Portuguese, French

Publications



Google Scholar (most reliable source for 2 academic names):

H-index: 21, i10-index: 34, total cites: 1464

Most cited paper: Reddy and Dávalos 2003 (206)

Most cited senior author paper (equal co-authorship): Reddy and Dávalos 2003 (206)

Peer-reviewed journal articles (48 published or in press)

- In Press Nuñez-Novas, M.S., Y.M. León, J. Mateo, **L.M. Dávalos**. Records of the cave-dwelling bats (Mammalia: Chiroptera) of Hispaniola with an examination of seasonal variation in diversity. *Acta Chiropterologica*.
- 2016 Herrera, J., **L.M. Dávalos**. Phylogeny and divergence times of lemurs inferred with recent and ancient fossils in the tree. *Systematic Biology*. DOI: 10.1093/sysbio/syw035
- 2016 Rojas, D.*, O.M. Warsi, **L.M. Dávalos***. Bats (Chiroptera: Noctilionoidea) challenge recent origin of extant neotropical diversity. *Systematic Biology*. DOI: 10.1093/sysbio/syw011. *Corresponding authors.
- 2015 Yohe, L.R., P.M. Velazco, D. Rojas, B.E. Gerstner, N.B. Simmons, **L.M. Dávalos**. Bayesian hierarchical models suggest oldest known plant-visiting bat was omnivorous. *Biology Letters* 11(11): 1-5. DOI: 10.1098/rsbl.2015.0501
- 2015 Chadid, M.A., **L.M. Dávalos**, J. Molina, D. Armenteras. A Bayesian Spatial Model Highlights Distinct Dynamics in Deforestation from Coca and Pastures in an Andean Biodiversity Hotspot. *Forests* 2015(6): 3828-3846. DOI: 10.3390/f6113828.

- 2015 Dahan, R.A.* , R.P. Duncan, A.C.C. Wilson, **L.M. Dávalos***. Expansion of amino acid transporters is associated with the evolution of obligate endosymbiosis in sap-feeding insects (Hemiptera: Sternorrhyncha). *BMC Evolutionary Biology* 15:52 DOI: 10.1186/s12862-015-0315-3. *Corresponding authors.
- 2015 Corthals, A.P., A. Martin, O.M. Warsi, M. Woller-Skar, W. Lancaster, A. Russell, **L.M. Dávalos**. From the field to the lab: Best practices for field Preservation of Bat Specimens for Molecular Analyses. *PLoS One* 10(3), e0118994. DOI: 10.1371/journal.pone.0118994
- 2014 Núñez-Novas, M.S., Y.M. León, J. Mateo, and **L.M. Dávalos**. 2014. Horas de éxodo y estacionalidad en los murciélagos en cuatro cuevas de la República Dominicana. *Novitates Caribaea* 2014(7), 83-94.
- 2014 **Dávalos, L.M.***, A.L. Russell*. Sex-biased dispersal produces high error rates in mitochondrial distance-based and tree-based species delimitation. *Journal of Mammalogy*. 95(4), 781-791. DOI: 10.1644/14-MAMM-A-107. *Equal contribution.
- 2014 Davies, K.T.J., G. Tsagkogeorga, N.C. Bennett, **L.M. Dávalos**, C.G. Faulkes, S.J. Rossiter. Molecular evolution of growth hormone and insulin-like growth factor 1 receptors in long-lived, small-bodied mammals. *Gene* 549(2014), 228-236. DOI: 10.1016/j.gene.2014.07.061
- 2014 **Dávalos, L.M.**, P. Velazco, O. Warsi, P. Smits, N.B. Simmons. Integrating Incomplete Fossils by Isolating Conflicting Signal in Saturated and Non-Independent Morphological Characters. *Systematic Biology* 63(4), 582–600. DOI: 10.1093/sysbio/syu022
- 2014 Dumont, E.R.* , K. Samavedam, I. Grosse, O.M. Warsi, B. Baird, **L.M. Dávalos***. Selection for mechanical advantage underlies multiple cranial optima in New World leaf-nosed bats. *Evolution* 68(5), 1436-1449. DOI: 10.1111/evo.12358 *Equal contribution.
- 2014 Hayden, S., M. Bekaert, A. Goodbla, W.J. Murphy, **L.M. Dávalos***, E. Teeling*. A Cluster of Olfactory Receptor Genes Linked to Frugivory in Bats. *Molecular Biology and Evolution* 31(4), 917-927. DOI: 10.1093/molbev/msu043 *Equal contribution.
- 2014 Duncan, R., F. Husnik, J. Van Leuven, D. Gilbert, **L. Dávalos**, J. McCutcheon, A. Wilson. Dynamic recruitment of amino acid transporters to the insect-symbiont interface. *Molecular Ecology* 23(6), 1608–1623. DOI: 10.1111/mec.12627
- 2014 **Dávalos, L.M.**, J.S. Holmes, N. Rodríguez, D. Armenteras. Demand for beef is unrelated to pasture expansion in northwestern Amazonia. *Biological Conservation* 170(2014), 64-73. DOI: 10.1016/j.biocon.2013.12.018
- 2013 Dawson, M., A. Algar, A. Antonelli, **L.M. Dávalos**, E. Davis, R. Early, A. Guisan, R. Jansson, J. Lessard, K. Marske, J. McGuire, A.L. Stigall, N.G. Swenson, N. Zimmermann, D. Gavin. An horizon scan of biogeography. *Frontiers in Biogeography* 5(2), 130-157.
- 2012 **Dávalos, L.M.**, A.L. Russell. Deglaciation Explains Bat Extinction in the Caribbean. *Ecology and Evolution* 2(12), 1-7. DOI: 10.1002/ece3.399
- 2012 **Dávalos, L.M.***, A.L. Cirranello*, J.H. Geisler, N.B. Simmons. Understanding phylogenetic incongruence: lessons from Phyllostomid bats. *Biological Reviews* 84(7), 991-1024. *Equally-authored. DOI: 10.1111/j.1469-185X.2012.00240.x
- 2012 Corthals, A., A. Koller, D.W. Martin, R. Rieger, E.I. Chen, M. Bernaski, G. Recagno, **L.M. Dávalos**. Detecting the Immune System Response of a 500 Year-old Inca Mummy. *PLoS One* 7(7), e41244. DOI: 10.1371/journal.pone.0041244
- 2012 Dumont, E.R.* , **L.M. Dávalos***, A. Goldberg, S. E. Santana, K. Rex, C.C. Voigt. Morphological innovation, diversification and the invasion of a new adaptive zone. *Proceedings of the Royal Society B: Biological Sciences* 279(1734), 1797-1805. *Equally-authored. DOI: 10.1098/rspb.2011.2005
- 2012 Geeta, R., **L.M. Dávalos**, A. Levy, L. Bohs, M. Lavin, K. Mummenhoff, N. Sinha, M.F. Wojciechowski. Keeping it simple: Flowering plants tend to retain, and revert to, simple leaves. *New Phytologist* 193(2), 481-493. DOI: 10.1111/j.1469-8137.2011.03951.x
- 2011 **Dávalos, L.M.**, A.C. Bejarano, M.A. Hall, H.L. Correa, A.P. Corthals, O.J. Espejo. Forests and drugs: coca-driven deforestation in global biodiversity hotspots. *Environmental Science and Technology* 45(4), 1219-1227. DOI: 10.1021/es102373d
- 2009 **Dávalos, L.M.***, A.C. Bejarano*, H.L. Correa. Disabusing Cocaine: Pervasive Myths and Enduring Realities of a Globalised Commodity. *International Journal of Drug Policy* 20(5), 381-386. *Equally-authored. DOI: 10.1016/j.drugpo.2008.08.007

- 2009 **Dávalos, L.M.***, A.L. Porzecanski*. Accounting for molecular stochasticity in systematic revisions: Species limits and phylogeny of *Paroaria*. *Molecular Phylogenetics and Evolution* 53(1), 234-248. *Equal contribution. DOI: 10.1016/j.ympev.2009.06.003
- 2008 **Dávalos, L.M.**, A. Corthals. A new species of *Lonchophylla* (Chiroptera: Phyllostomidae) from the eastern Andes of northwestern South America. *American Museum Novitates* 3635, 1-16. DOI:10.1206/464.1
- 2008 **Dávalos, L.M.**, S.L. Perkins. Saturation and base composition bias explain phylogenomic conflict in *Plasmodium*. *Genomics* 91(5), 433-442. DOI: 10.1016/j.ygeno.2008.01.006
- 2007 **Dávalos, L.M.** Short-faced bats (Phyllostomidae: Stenodermatina): a Caribbean radiation of strict frugivores. *Journal of Biogeography* 34(2), 364-375. DOI: 10.1111/j.1365-2699.2006.01610.x
- 2006 **Dávalos, L.M.** The geography of diversification in the mormoopids (Chiroptera: Mormoopidae). *Biological Journal of the Linnean Society* 88(5), 101-118. DOI: 10.1111/j.1095-8312.2006.00605.x
- 2006 Ochman, H., **L.M. Dávalos**. The nature and dynamics of bacterial genomes. *Science* 311(5768), 1730-1733. DOI: 10.1126/science.1119966
- 2005 **Dávalos, L.M.** Molecular phylogeny of Funnel-eared bats (Chiroptera: Natalidae), with notes on biogeography and conservation. *Molecular Phylogenetics and Evolution* 37(1), 91-103. DOI:10.1016/j.ympev.2005.04.024
- 2005 Fjeldså, J., **M.D. Álvarez**, J.M. Lazzano, B. León. Illicit Crops and Armed Conflict as Constraints on Biodiversity Conservation in the Andes Region. *Ambio* 34(3), 205-211. DOI: 10.1579/0044-7447-34.3.205
- 2004 Carstens, B.C., J. Sullivan, **L.M. Dávalos**, P.A. Larsen, S.C. Pedersen. Exploring population genetic structure in three species of Lesser Antillean bats. *Molecular Ecology* 13(9), 2557-2566. DOI: 10.1111/j.1365-294X.2004.02250.x
- 2004 **Dávalos, L.M.**, S.A. Jansa. Phylogeny of the Lonchophyllini (Chiroptera: Phyllostomidae). *Journal of Mammalogy* 85(3), 404-413. DOI: 10.1644/1545-1542(2004)085<0404:POTLCP>2.0.CO;2
- 2004 **Dávalos, L.M.** Phylogeny and biogeography of Caribbean mammals. *Biological Journal of the Linnean Society* 81(3), 373-394. DOI: 10.1111/j.1095-8312.2003.00302.x
- 2004 **Dávalos, L.M.** A new Chocoan species of *Lonchophylla* (Chiroptera: Phyllostomidae). *American Museum Novitates* 3426, 1-14. DOI: 10.1206/0003-0082(2004)426<0001:ANCSOL>2.0.CO;2
- 2003 Reddy, S.*, **L.M. Dávalos***. Geographical sampling bias and its implications for conservation priorities in Africa. *Journal of Biogeography* 30(11), 1719-1727. *Equally-authored. DOI: 10.1046/j.1365-2699.2003.00946.x
- 2003 **Álvarez, M.D.** Forests in the time of violence: conservation implications of the Colombian war. *Journal of Sustainable Forestry* 16(3,4), 49-70. DOI:10.1300/J091v16n03_03
- 2003 **Dávalos, L.M.**, R. Sears, G. Raygorodetsky, B. Simmons, H. Cross, T. Grant, T. Barnes, L. Putzel, A.L. Porzecanski. Regulating access to genetic resources under the Convention on Biological Diversity: An analysis of selected case studies. *Biodiversity and Conservation* 12(7), 1511-1524. DOI: 10.1023/A:1023615303748
- 2003 **Dávalos, L.M.**, R. Eriksson. New and Noteworthy records from Ten Jamaican bat caves. *Caribbean Journal of Science* 39(1), 140-144.
- 2002 **Álvarez, M.D.** Illicit crops and bird conservation priorities in Colombia. *Conservation Biology*. 16(4), 1086-1096. DOI: 10.1046/j.1523-1739.2002.00537.x
- 2001 Sears, R., **L.M. Dávalos**, G. Ferraz. Missing the forest for the profits: The role of multinational corporations in the international forest regime. *Journal of Environment and Development* 10(4), 345-364.
- 2001 **Álvarez, M.D.** Could peace be worse than war for Colombia's forests?. *The Environmentalist* 21(4), 305-315. DOI: 10.1023/A:1012904318418
- 2001 **Dávalos, L.M.**, T. Brooks. Parc National La Visite, Haiti: a last refuge for the country's montane birds. *Cotinga* 16, 36-39.
- 2001 Brooks, T., **L.M. Dávalos**. The Birds of Île-à-Vache, Haiti. *Caribbean Journal of Science* 37(1,2), 112-115.
- 2001 **Dávalos, L.M.** The San Lucas mountain range in Colombia: How much conservation is owed to the violence? *Biodiversity and Conservation* 10(1), 69-78. DOI: 10.1023/A:1016651011294

- 1999 **Dávalos, L.M.**, J. A. Guerrero. The bat fauna of Tambito, Colombia. *Chiroptera Neotropical* 5(1-2), 112-115.
- 1999 Donegan, T., **L. Dávalos**. Ornithological observations from Reserva Natural Tambito, Cauca, south-west Colombia. *Cotinga* 12, 48-55.
- 1998 Salaman, P., **L. Dávalos**, G. Kirwan. The first breeding records of White-rimmed Brush-finch, *Atlapetes leucopis*, with ecological notes. *Cotinga* 9, 24-26.

Peer-reviewed book sections (5 published)

- 2012 **Dávalos, L.M.**, S. Turvey. West Indian mammals: The old, the new, and the recently extinct. Pp. 157-202 in *Bones, Clones and Biomes: The History and Geography of Recent Neotropical Mammals*. B. Patterson, and L. P. Costa (eds.). Chicago: University of Chicago Press.
- 2011 Pinedo Vasquez, M., **L.M. Dávalos**. The river-refuge hypothesis and other contributions of Márcio Ayres to conservation science. Pp. 317-324 in *The Amazonian Varzea: The Decade Past and the Decade Ahead*. M. Pinedo Vasquez, M. Ruffino, C. J. Padoch, and E. Brondizio (eds.). New York: Springer.
- 2010 **Dávalos, L.M.** Earth history and the evolution of Caribbean bats. Pp. 96-115 in *Island bats: ecology, evolution, and conservation*. Fleming, T.H., and P.A. Racey (eds.). Chicago: University of Chicago Press.
- 2007 **Álvarez, M.D.** Environmental damages from illicit crops and processing of prohibited drugs in Colombia. Pp. 133-147 in *Extreme conflicts and tropical forests*. de Jong, W., D. Donovan, and A. Ken-ichi (eds.). Dordrecht: Springer.
- 2003 **Álvarez, M.D.** Forests in the time of violence: conservation implications of the Colombian war. Pp. 49-70 in *War and tropical forests: conservation in areas of armed conflict*. Price, S.V. (ed.). Food Products Press, New York. Cross-published in journal.

Editor-reviewed contributions (14 published)

- 2012 Donegan, T., **L. Dávalos**. An apparent hybrid *Heliodoxa* hummingbird from the West Andes of Colombia. *Conservación Colombiana* (17), 20-25.
- 2010 Romero, C., **L. Dávalos**, M. Castro, D. Armenteras, J. García. El Callejón de los Milagros. *Semana* (1492) 4 December 2010.
- 2008 **Dávalos, L.M.**, A.C. Bejarano. Conservation in conflict: Illegal drugs versus habitat in the Americas. *State of the Wild 2008-2009: A global portrait of wildlife, wildlands, and oceans*. Pp. 218-225 in Fearn, E., (ed.). Washington, D.C.: Island Press.
- 2005 **Dávalos, L.M.** Bats of Puerto Rico. *Caribbean Journal of Science* 41(4), 882-883.
- 2005 **Álvarez, M.D.** Guerrillas in the midst. *Conservation Biology* 19(6), 2040-2043.
- 2005 **Álvarez, M.D.** Colombia: the many faces of the war. *ETFRN Newsletter* 43/44, 63-65
- 2004 **Dávalos, L.M.** and R. Eriksson. *Epicrates subflavus* (Jamaican Boa). Foraging behavior. *Herpetological Review* 35(1), 66.
- 2001 **Álvarez, M.D.** Serranía de San Lucas, Sur de Bolívar: ¿Habrà futuro?. *ACODAL* 194, 13-17.
- 2001 **Álvarez, M.D.** Daños ambientales por cultivos ilícitos y procesamiento de drogas prohibidas en Colombia. *ACODAL* 193, 7-16.
- 2001 **Álvarez, M.D.** Forests under fire. *North American Congress on Latin America [NACLA] Report on the Americas* 35(1), 29-34.
- 2000 **Dávalos, L.M.** La perspectiva ambiental en la mesa de diálogo. *El Tiempo* (Bogotá) 1 September 2000.
- 2000 **Dávalos, L.M.** El Futuro de los bosques de Colombia: será la paz peor que la guerra? *El Tiempo* (Bogotá) 21 August 2000.
- 1999 Porzecanski, A.L., R. Sears, T. Grant, L. Putzel, **L. Dávalos**, T. Barnes, H. Cross, G. Raygorodetsky, B. Simmons, P. Chasek. Access to Genetic Resources: An Evaluation of the Development and Implementation of Recent Regulation and Access Agreements. *School of International and Public Affairs Columbia University Environmental Policy Studies Working Paper #4*, 114 pp.
- 1998 Salaman, P.G., T.M. Donegan, A.M. Cuervo, D.E. Davison, **L. Dávalos**. Birds- Aves. *Colombian EBA Project*

Report Series, Colombia '98: expedition to Serranía de los Churumbelos 1, 17-21.

Abstracts and short-form publications (23)

- 2015 Herrera, J.P., O.M. Warsi, L.M. Dávalos, L. Tongasoa, P.C. Wright. The Critically Endangered *Cheirogaleus sibreei* is Discovered in High Elevation Forests In Ranomafana National Park And The Cofav Corridor, Southeast Madagascar. *American Journal of Primatology* 77, 95-95.
- 2014 Sbeglia, G.C., D.E. Dykhuizen, P.C. Wright, L.M. Dávalos. Socially facilitated *E. coli* transmission in ringtailed lemurs (*Lemur catta*): Social relationships that promote and prevent the spread of disease. *American Journal of Physical Anthropology* 153, 230-230.
- 2012 Dumont, E.R., **L.M. Dávalos**, A. Goldberg, S.E. Santana, K. Rex, C.C. Voigt. Cranial Morphology, Feeding Performance and Diversification in New World Leaf-Nosed Bats. *Integrative and Comparative Biology* 52, E49.
- 2012 A. Martin, **L.M. Dávalos**, W. Lancaster, A.L. Russell, M. Woller-Skar, A. Corthals. A Comparison of DNA Yields from Different Tissue Types and Storage Media. *Bat Research News* 53(4), 94.
- 2012 **Dávalos, L.M.**, N. Wei, A.L. Russell. Ecological Release and Genetic Signatures of Population Growth in Antillean *Artibeus jamaicensis*. *Bat Research News* 53(4), 78-79.
- 2011 Corthals, A.S.P., **L. Dávalos**, D.W. Martin, R. Rieger, E.I. Chen, A. Koller. Detecting Immune System Response Proteins in a 500 Year-old Inca Mummy. *Journal of Biomolecular Techniques* 22, S64.
- 2011 **Dávalos, L.M.**, A.L. Russell. False Positive and False Negative Error Rates in Mitochondrial Species Delimitation. *Bat Research News* 52(4), 69.
- 2011 Velazco, P.M., N.B. Simmons, **L.M. Dávalos**. Combined Analyses of Extant and Fossil Phyllostomid Bats (Chiroptera, Phyllostomidae). *Bat Research News* 52(4), 109.
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University Teaching

Undergraduate courses taught at SUNY Stony Brook

1.5 credits/instructor	General Ecology, BIO113 (with D. Padilla) 2010
3.0 credits	Conservation Biology, BIO 336 offered first Spring 2010, then Fall 2010-current

Undergraduate Research Supervising (molecular and bioinformatics lab) and Mentoring

Fall 2014-current	John Navilio
Spring 2014-current	Greg Poterewicz
Spring 2013	Rachel Lohrdal (Anthropology program)
Fall 2012-Spring 2013	Donald J. Pantino
Summer 2010-Fall 2010	Melissa Zheng

Spring 2010	Alexander Lucaci
Spring 2010	Tiffany Wang
Fall 2009-Spring 2011	Anne Szeto
Fall 2009-Spring 2010	Rosa Guerrero
Spring 2009	Co-advised undergraduate engineering students Muhammad Hussain, Kevin Li and Jawad Rana, 3rd place winners of the 2009 Ureca! competition

Graduate courses and seminars taught

4 lectures on phylogenetics Intensive 3 8-hr days	Principles of Evolution BEE551 Fall 2013 Análisis Espacial para la Conservación de la Biodiversidad y Manejo de Paisajes Tropicales (Spatial Analysis for Biodiversity Conservation and Tropical Landscape Management) 8-10 July 2013 at Universidad Nacional of Colombia
2 lectures 2.0 credits/person	Principles of Evolution BEE551 Fall 2012 Principles and Applications of Ecology and Evolution BEE 576 (currently with J. Gurevitch) offered Fall 2011-current
3.0 credits	Conservation Biology, BEE 572 offered Fall 2010-current
1.0 credit	Seminar on the evolutionary consequences of anthropogenic activities, BEE 692 (with W. Aguirre) 2009

Dissertation and other advising

Joined PhD Fall 2014	Kristjan Mets, SBU-Ecology and Evolution
Joined PhD Fall 2012	Laurel Yohe, SBU-Ecology and Evolution
Joined PhD Fall 2012	Marisa Lim SBU-Ecology and Evolution (co-advised with C. Graham)
Joined PhD Fall 2008	Elise Lauterbur, SBU-Ecology and Evolution (co-advised with P. C. Wright)
Joined MA Fall 2012	Shaelyn Bishop, SBU-Ecology and Evolution
BSc, Spring 2011	Miguel Santiago Núñez, undergraduate student at <i>Universidad Autónoma de Santo Domingo (UASD)</i>
E&E MA, Spring 2014	Xiayou Zhang, SBU-Ecology and Evolution
E&E MA, Spring 2014	Samantha DelSerra, SBU-Ecology and Evolution
E&E MA, Spring 2014	Romain Dahan, SBU-Ecology and Evolution
E&E MA, Spring 2013	Genna Tudda, SBU-Ecology and Evolution
E&E MA, Spring 2011	Aaron Goldberg, SBU-Ecology and Evolution
E&E MA, Spring 2011	Amanda Crow, SBU-Ecology and Evolution
E&E MA, Spring 2011	Alison Onstine, SBU-Ecology and Evolution
Dissertation committees	James Herrera (SBU-Anthropology, defended Spring 2015), Shannon Morgan (SUNY Albany), Miguel Pinto (CUNY-Graduate Center, defended Fall 2014), Vladimir Rojas (Universidad del Valle-Biology, defended Fall 2012), Haeyeong Ryu (SBU-E&E), Gena Sbeglia (SBU-E&E)

Lab rotation

Fall 2009	Emmanuel Asare (Genetics program)
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Guest lectures

Spring 2015	1 lecture and discussion to undergraduate student of Tembo: the Wildlife Conservation Society of Stony Brook University
Fall 2013	1 lecture in BEE585 Research Design and Analysis in Ecology and Evolution, instructor: Jessica Gurevitch
Spring 2013	1 lecture in Anthropology 360 Primate Conservation, instructor: Patricia Wright
Fall 2012	1 lecture in History 380 Topics in Latin American History, instructor: Paul Gootenberg

Department Service

Spring 2013-present	Member, Masters program executive committee.
Fall 2012-present	Department representative at Undergraduate Biology Executive Committee
Fall 2012-Spring 2013	Member Ecology and Evolution Chair search committee
Summer 2012	Department representative at Howard Hughes Medical Institute and the National Academies Summer Institutes for Undergraduate Education
Spring 2012	Chair of PhD admissions committee
Fall 2011	Member faculty search committee, human genomics/genetics hire for Human Evolution UG major
Fall 2010-Spring 2011	ESAC (second year student advisory committee)
Spring 2010	Ecology and Evolution Strategic Planning Committee
Spring 2009	Ecology and Evolution Graduate Program Admissions committee
Fall 2008-current	Member Steering Committee, SBU-BNL Center for Impacts of Regional Climate Change

University Service

Spring 2014	Tinker Grant Committee
Fall 2013	Interviewer of Global Health Initiative Director
Fall 2013	Globalization initiative writing committee member
Spring 2013-present	University-wide STEM committee
Spring 2013	Co-organizer with P. Gootenberg of Coca at the Crossroads Symposium (http://tinyurl.com/kxgzuyr), 3 April.
Spring 2013	Member STEM education initiative
Spring 2011	Chair in Panel 3: On Sustainability: Experiences, Essays, Programs in Stony Brook University Latin American & Caribbean Studies Center 10th Annual Graduate Conference 8 April
Fall 2010-current	Co-organizer Latin American and Caribbean Studies Center Seminar Series
Spring 2010	Panel discussion of Communicating Science workshop 14 May
Spring 2010	Tinker Grant Committee
Fall 2008-current	Member Steering Committee, SBU-BNL Center for Impacts of Regional Climate Change

Community Service

Summer 2014	Mentoring research of Alessondra Bruno, Courtney Cheng, Samantha DeRosa, Cameron Morales, and Yasin Perez, Long Island High School students
Fall 2012-Spring 2013	Mentoring research of volunteer and SBU UG graduate Brandon Baird
Fall 2012	Mentoring research of Syracuse UG student Jonah Rothleder
Summer 2013	Mentoring research of Gabrielle Donnelly, Samuel Gochman, Edward LI, Cameron Morales, and Yasin Perez, Long Island High School students
Summer 2012	Mentoring research of Elodia Caballero (admitted at Columbia University), Johana Peña, Zachary Rowe (admitted at Stony Brook University), and Nancy Wei (admitted at Northwestern University), Long Island High School students
Summer 2011	Mentoring research of Alexander Legakis (admitted at Cornell University), Long Island High School student
Summer 2010	Mentoring research of Bonnie Lei (admitted at Harvard University), southern California High School student, Siemens Regional Finalist 2010, Finalist Intel Science Talent Search 2011, 2 nd Grand Award Animal Sciences category at Intel International Science and Engineering Fair 2011
Summer 2010	Mentoring research of Laura Barger (admitted at University of Pennsylvania), Long Island High School student
Summer 2009-Summer	Mentoring research of Peter Connell (admitted at SUNY College of Environmental

2010	Science and Forestry), Long Island High School student, semifinalist at the Long Island Junior Science and Humanities Symposium, NOAA "Taking the Pulse of the Planet" award at NYSSEF 2011
Spring 2010-Spring 2012	Mentoring research of volunteer Mark Hall
Fall 2009-Spring 2010	Mentoring research of Kendra Cornejo, High School student, Intel Science Talent Search Semifinalist 2011 (at Gurevitch lab)
Fall 2008-Fall 2009	Mentoring research of volunteer and SBU UG graduate Elizabeth Simola

Professional Service

Spring 2015	NSF Evolutionary Genetics Panelist
2013-current	Associate Editor, <i>Quarterly Review of Biology</i>
Winter 2013	Chair of symposium on island biogeography at the International Biogeography Society biennial meeting in Miami, Florida
Fall 2012	NSF Phylogenetic Systematics Panelist
2012	Guest Lecturer in Topics in Global Change, graduate course convened by T. Mitch Aide at the University of Puerto Rico, Rio Piedras. Responsible for 2 1.5-hr lectures (9 and 11 April), and 1 3.5-hr workshop (13 April).
2012	27-28 March Socio-Environmental Synthesis Center (SESYNC) Theme Meeting participant
2012-current	Associate Editor, <i>Molecular Phylogenetics and Evolution</i>
2011	Judge of oral presentations at the North American Symposium for Bat Research, Toronto, Ontario.
2008-2012	Editorial Board member, <i>Molecular Phylogenetics and Evolution</i>
2008	Judge of oral presentations at the North American Symposium for Bat Research, Scranton, Pennsylvania.
2007-current	Collaboration with the Illicit Crop Monitoring System of Colombia (SIMCI), sponsored by the United Nations Office on Drug and Crime; advising monitoring bodies in Peru and Bolivia through SIMCI
2006-current	Ad hoc grant reviewer for the United States National Science Foundation (NSF) and the National Geographic Society
2004-current	Ad hoc reviewer in Evolutionary Biology: <i>Acta Chiropterologica</i> , <i>Axios</i> reviews, <i>The American Naturalist</i> , <i>Biological Journal of the Linnean Society</i> , <i>BMC Evolutionary Biology</i> , <i>Canadian Journal of Zoology</i> , <i>Ecography</i> , <i>Evolution</i> , <i>FEBS Letters</i> , <i>Frontiers in Zoology</i> , <i>Gene</i> , <i>Genetica</i> , <i>Journal of Biogeography</i> , <i>Journal of Field Ornithology</i> , <i>Journal of Heredity</i> , <i>Journal of Mammalian Evolution</i> , <i>Journal of Mammalogy</i> , <i>Journal of Parasitology</i> , <i>Molecular Biology and Evolution</i> , <i>Molecular Ecology</i> , <i>Molecular Ecology Notes</i> (currently, <i>Mol. Ecol. Resources</i>), <i>Molecular Phylogenetics and Evolution</i> , <i>PeerJ</i> , <i>Philippine Journal of Science</i> , <i>PLoS One</i> , <i>Proceedings of the Biological Society of Washington</i> , <i>Proceedings of the Royal Society B: Biological Sciences</i> , <i>Quaternary Science Reviews</i> , <i>Scientific Publications of the American Museum of Natural History</i> , <i>Scientific Reports</i> , <i>Trends in Ecology and Evolution</i> , <i>University of Chicago Press</i> , <i>Zootaxa</i> . Ad hoc reviewer in Ecology: <i>Actualidades Biológicas</i> , <i>Caribbean Journal of Science</i> , <i>Chiroptera Neotropical</i> , <i>Diversity and Distributions</i> , <i>Emu</i> , <i>Ornitología Neotropical</i> , <i>Quarterly Review of Biology</i> . Ad hoc reviewer in Conservation Biology: <i>Animal Biodiversity and Conservation</i> , <i>Biodiversity and Conservation</i> , <i>Biological Conservation</i> , <i>Ecosphere</i> , <i>Ecosystems</i> , <i>Environmental Science & Technology</i> , <i>Science Magazine</i> . Ad hoc reviewer in Environmental Humanities: <i>Journal of Peasant Studies</i> , <i>Landscape Ecology</i> , <i>Journal of World Systems Research</i> .
Summer 2010	Convener with Nancy Simmons of the bat extinction symposium at the 15 th International Bat Research Congress
2009 & 2011	Judge of the North American Society of Bat Research student platform competition.
Fall 2009	NSF Improvements to Biological Research Collections Panelist

2008 IUCN Global Mammal Assessment: Mesoamerican and Caribbean
2006 IUCN Global Mammal Assessment: northern Andes
2006 Technical consultant: IMAX film "Mummies: Secrets of the Pharaohs"
2000 BirdLife International assessment (neotropical)

Professional Society Membership

2014-2016 Society for the Study of Evolution
2013-present Society for Systematic Biology, Life Member
2012-2016 International Biogeography Society
2008-present North American Society for Bat Research
2005-2006 American Society of Mammalogy