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Liliana M. Dávalos

Experience

Fall 2008- Current	<u>State University of New York at Stony Brook, USA</u> Assistant Professor (2008-2014), Associate Professor (2014-2018), Full Professor (2018-present): Department of Ecology and Evolution, Consortium for Inter-Disciplinary Environmental Research <ul style="list-style-type: none">Diversification in species & traits / Genomes & -omes / Tropical deforestation & how to stop it
2007-Current	<u>American Museum of Natural History, New York, USA</u> Research Associate, Division of Vertebrate Zoology
2007-2008	<u>Open University, Milton Keynes, UK</u> Lecturer (US equivalent: Assistant Professor): Molecular Ecology
2005-2006	<u>Columbia University, New York, USA</u> Instructor, Department of Ecology, Evolution, and Environmental Biology (E3B) <ul style="list-style-type: none">Evolution: from Darwin to DNA
2005-2006	<u>American Museum of Natural History, New York, USA</u> Postdoctoral Research Associate, PI: Susan L. Perkins <ul style="list-style-type: none">Phylogenetics, genomics of malaria parasites
2004-2005	<u>University of Arizona, Tucson, USA</u> Postdoctoral Research Associate, PI: Howard Ochman <ul style="list-style-type: none"><i>E. coli</i> genomics, pseudogenes
1998-2004	<u>Columbia University and American Museum of Natural History, New York, USA</u> Graduate Fellow in Ecology, Evolution and Environmental Biology, PI: Nancy B. Simmons <ul style="list-style-type: none">Phylogenetics, biogeography, Caribbean mammalsBiodiversity conservation, armed conflict, illegal marketsExpedition leader: Tambito (Colombia), Jamaica, Dominican Republic, Trinidad, and Cat Island (Bahamas)Teaching assistant: Field Ornithology, People and the Environment
1997-1998	<u>Colombia '98 Expedition</u> Field Researcher <ul style="list-style-type: none">Organized, raised funds, and conducted field ornithology survey at Serranía de los Churumbelos, site declared National Natural Park Serranía de los Churumbelos on 30 August 2007 partly based on this expeditionFirst biologist to visit the Serranía de San Lucas in 50 years, site proposed as National Natural Park Serranía de San Lucas in 2010 partly based on this reconnaissance surveyResearch assistant for "Avifauna of Tambito and Munchique", endorsed by the Cambridge

Current 23 July 2019

1996-1997	Expedition Committee and Museo de Historia Natural (Universidad del Cauca), Popayán Universidad del Valle and Centro Internacional de Agricultura Tropical (CIAT), Cali, Colombia Undergraduate fellow at the Biotechnology Research Unit <ul style="list-style-type: none"> Molecular genetics of resistance to Hoja Blanca virus (HBV) in rice
1994-1996	Universidad del Valle, Cali, Colombia Teaching Assistant <ul style="list-style-type: none"> Three courses: Ecology, Evolution, and Quantitative Genetics

Education

2001-2004	Columbia University, Graduate School of Arts and Sciences (GSAS)	PhD (May) Ecology, Evolution, and Environmental Biology
1998-2001	Columbia University, GSAS	MPhil (Oct) Ecology and Evolutionary Biology
1998-2001	Columbia University, School of International and Public Affairs	(Oct) Certificate in Environmental Policy Studies
1998-2000	Columbia University, GSAS	MA (Feb) Ecology and Evolutionary Biology
1991-1997	Universidad del Valle	BSc (Oct) Biology with emphasis in Genetics

Current grant funding (percent of applications funded)

2019-2022	<i>"Regrowing the brain: evolution and mechanisms of seasonal reversible size changes in a mammal"</i> co-PI, Human Frontiers of Science Program, \$327,261 to SBU, \$1,050,000 total. (4%)
2018-2020	<i>"The Very Extended Phenotype: Connecting genetics and evolution to ecosystem function"</i> co-PI, internal SBU funding \$70,000 total. (6.8%)
2019-2021	<i>"SESYNC Pursuit: The death and life of biodiversity: modeling extinction and resilience on islands"</i> joint PI with Siobhán Cooke, Alexis Mychajliw, Angelo Soto & Nathan Upham, National Socio-Environmental Synthesis Center, travel costs for 15 participants in three workshops. (N/A)
2018-2020	<i>"RoL: FELS: EAGER: Genomics of exceptions to scaling of longevity to body size"</i> PI, National Science Foundation, \$148,060 to SBU, \$299,735 total. (N/A)
2018-2019	<i>"Seed Grants Colciencias-NSF: Assessing the genomic, transcriptomic and microbiomic basis of biodiversity for the post-conflict Era"</i> PI, \$20,000 to Instituto Humboldt (Colombia). (N/A)
2017-2019	<i>"Dissertation Research: Detecting adaptive evolution of gene duplication in olfactory receptors"</i> PI, National Science Foundation, \$18,760 total. (24%)
2016-2022	<i>"NRT-DESE: Interdisciplinary Graduate Training to Understand and Inform Decision Processes Using Advanced Spatial Data"</i> co-PI, National Science Foundation, \$2,994,707 total. (8%)
2015-2020	<i>"Chance or necessity? Adaptive vs. non adaptive evolution in plant-frugivore interactions"</i> PI, National Science Foundation, \$246,000 to SBU, \$796,000 total. (19%)
2014-2019	<i>"Dimensions: Collaborative Research: Discovering genomic and developmental mechanisms that underlie sensory innovations critical to adaptive diversification"</i> , PI, National Science Foundation, \$660,285 to SBU, \$1,911,615 total. (5.2%)

Honors and Awards (Last 10 years)

2016	Stony Brook University College of Arts and Sciences Teaching Excellence Award for outstanding teaching and true caring for students in and outside of the classroom
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- 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)

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- 9 May 2019 **Dávalos, L.M.** [A Sensory Journey among Hyper Diverse Bats v.2](#). Student-Invited Speaker organized by the Biology Graduate Student Association, University of Missouri at St. Louis, St. Louis, Missouri.
- 1 April 2019 **Dávalos, L.M.** [How to make peace better than war for Colombia's forests](#). Humboldt University of Berlin Workshop: Post-conflict scenarios of land-use in Colombia, Berlin.
- 6 & 11 March 2019 **Dávalos, L.M.** [A Sensory Journey among Hyper Diverse Bats](#). Texas Tech University Biology Seminar, Lubbock, Texas. Also at the Instituto Humboldt, Venado de Oro (Colombia).
- 5 November 2018 **Dávalos, L.M.** 2018. [Olfaction in Bats](#). Natural History of the Senses course at the American Museum of Natural History, New York, New York.
- 27 March 2018 **Dávalos, L.M.** [Past, present, and future of deforestation in the northwestern Amazon](#). Student-Invited Speaker at the Ecology, Evolution, and Environmental Biology Seminar, Columbia University, New York, New York.
- 26 March 2018 **Dávalos, L.M.** [Dynamics of extinction and survival in the Caribbean and the future of biodiversity](#). Richard Gilder Graduate School Seminar, American Museum of Natural History, New York, New York.
- 23 March, 2018 **Dávalos, L.M.** [Extinction, Extinction: How it Was and How to Stop it From the Miocene to Today](#). Living World Lecture Series, Stony Brook University, Stony Brook, New York.
- 28 February, 2018 **Dávalos, L.M.** [Twenty million years of extinction and survival in the Caribbean \(v.2\)](#). Student-Invited Speaker at the Ecology, Evolution, and Behavior Seminar, University of Minnesota, St. Paul, Minnesota.
- 17 August, 2018 **Dávalos, L.M.** [Twenty million years of extinction and survival in the Caribbean \(v.1\)](#). Invited Speaker at the VI Colombian Symposium on Evolutionary Biology, Universidad del Valle, Cali, Colombia.
- 17 & 18 July, 2017 **Dávalos, L.M.** [Nexos desarrollo - cultivos ilícitos y tres propuestas para el siguiente siglo](#). Keynote at Banco de la República Cali & Medellín, Colombia.
- 17 July, 2017 **Dávalos, L.M.** [¿De dónde viene y para dónde va la deforestación en Colombia?](#) Keynote at ICESI Cali, Colombia.
- 12 April, 2017 **Dávalos, L.M.** [Models of extinction from the Miocene to the last 40 years](#). Student-Invited Speaker at the Students Scholar Day keynote at Grand Valley State University, Allendale, Michigan.
- 16 February, 2017 **Dávalos, L.M.** [The importance of models —dynamics of extinction and their drivers from the Miocene to the last 40 years \(v. 2\)](#). Symposium on Geoecology at the University of Basel, Basel, Switzerland.
- 27 June, 2016 **Dávalos, L.M.** [The importance of models —dynamics of extinction and their drivers from the Miocene to the last 40 years](#). Universidad del Valle, Cali, Colombia (videoconference). Also on 15 July 2016 at the Division of Environmental Biology seminar of the National Science Foundation.

Conference Presentations (Last 3 years)

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- 27 October 2018 **Dávalos, L.M.**, W.C. Lancaster, M.S. Nuñez-Novas, Y.M. León, B. Lei, J. Flanders, and A.L. Russell. [Using Genetics to Explain Acoustic Divergence in the *Pteronotus parnellii* Species Complex](#). 48th Annual North American Symposium on Bat Research, 24-27 October 2018 Puerto Vallarta, Jalisco.
- 24 July, 2017 **Dávalos, L.M.** 2017. [The forest frontier as the link between conflict risk, coca cultivation and high biodiversity areas](#). 28th International Congress for Conservation Biology, July 23-27. Cartagena,

Colombia.

- 23 June, 2017 **Dávalos, L.M.**, A. Shankar, and E. Lauterbur. 2017. The unnatural concept of extinction in species-area relationships and teaching conservation biology. Evolution 2017, 23-27 June. Portland, Oregon.
- 24-25 February, 2017 **Dávalos, L.M.**, E.R. Dumont, D. Rojas, K. Sears, and L.R. Yohe. 2017. [All bats are special, but stenodermatines are more special than others](#). 5th International Berlin Bat Meeting, 24-26 February. Berlin, Germany.

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

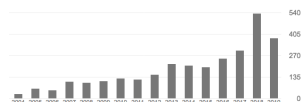
Computer Skills

- 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, ModelOMatic, Modeltest, MrBayes, Paup*, PETfold, Pfold, Phylip, Phym1, Sequin, Sequencher, Tracer, Trinity, 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 publication names):

H-index: 29, i10-index: 53, total cites: 3023

Most cited paper: Reddy and Dávalos 2003 (322)

Most cited lead author paper: Reddy and Dávalos 2003 (322)

Peer-reviewed journal articles (69 published, 7 in process; SBU †undergraduate, ‡graduate, ◇postdoctoral trainee; non SBU °trainee)

- Submitted Davies, K., **L. Yohe**◇, J. Almonte, M. Sánchez, E. Rengifo, E. Dumont, K. Sears, **L.M. Dávalos**, S. Rossiter. Molecular adaptation of visual genes associated with the evolution of specialised plant diets in neotropical bats. *Nature Ecology & Evolution*.
- Submitted Armenteras, D.* , P. Negret, L.F. Melgarejo, T. Lakes, J. Garcia, T. Krueger, M. Londoño, M. Baumann, **L.M. Dávalos**°. Alternative Pathways to Halt Deforestation in the post conflict Amazon. *Conservation Letters*. *Equal contribution.
- Submitted Potter, J.H.T.°, **L.R. Yohe**◇, E.M. Rengifo, M.K.R. Sánchez, H. Portocarrero, J. Pacheco, J.R. Leveau, G.

- Tsakogeorga, K.T.J. Davies°, **L.M. Dávalos**, S.J. Rossiter. Comparative transcriptomic patterns correlate with diet and metabolic demands in New World leaf-nosed bats. *Nature Metabolism*.
- In Review **Shankar, A.†**, D.R. Powers, **L.M. Dávalos**, C.H. Graham. The allometry of daily energy expenditure in hummingbirds. *Journal of Animal Ecology*.
- In Review **Yohe, L.◊**, K.T.J. Davies°, N.B. Simmons, K.E. Sears, E.R. Dumont, S.J. Rossiter, **L.M. Dávalos**. Targeted sequence capture outperforms RNA-Seq and degenerate-primer PCR cloning for sequencing the largest mammalian multi-gene family. *Molecular Ecology Resources*. Preprint DOI: <https://doi.org/10.1101/607994>
- In Review **Yohe, L.◊**, K.T.J. Davies°, S.J. Rossiter, **L.M. Dávalos**. Expressed vomeronasal type-1 receptors (V1rs) in bats uncover conserved mechanisms of social chemical signaling. *Genome Biology and Evolution*. Preprint DOI: <https://doi.org/10.1101/293472>
- Accepted Dávalos, E., **L.M. Dávalos**. Social Investment Deters Smallholder Coca Cultivation. *Journal of Development Studies*.
- 2019 **Yohe, L.◊***, P. Devanna*, K.T.J. Davies, J.H.T. Potter, S.J. Rossiter, E.C. Teeling, S. Vernes#, **L.M. Dávalos#**. Best practices for tissue collection of bats for -omics analyses and primary cell culture. *JoVE*. *Equal contribution, #co-corresponding authors. <https://www.jove.com/video/59505/tissue-collection-of-bats-for-omics-analyses-and-primary-cell-culture>
- 2019 Hedrick, B., G. Mutumi°, D. Munteanu, A. Sadier°, K. Davies°, S. Rossiter, K. Sears, **L. Dávalos**, E. Dumont. Morphological diversification under high integration in a hyper diverse mammal clade. *Journal of Mammalian Evolution*. DOI: <https://doi.org/10.1007/s10914-019-09472-x>
- 2019 **Lim, M.†**, C. Witt, C. Graham, **L.M. Dávalos**. Parallel molecular evolution in pathways, genes, and sites in high-elevation hummingbirds revealed by comparative transcriptomics. *Genome Biology and Evolution* **11**(6): 1552–1572. DOI: [10.1093/gbe/evz101](https://doi.org/10.1093/gbe/evz101)
- 2019 **Dávalos, L.M.***, W.C. Lancaster, M.S. Núñez-Novas°, Y.M. León, B. Lei°, J. Flanders, A.L. Russell*. A coalescent-based estimator of genetic drift, and acoustic divergence in the *Pteronotus parnellii* species complex. *Heredity* **122**(4): 417–427. *Equal contribution. DOI: [10.1038/s41437-018-0129-3](https://doi.org/10.1038/s41437-018-0129-3)
- 2019 Armenteras, D., L. Schneider, **L.M. Dávalos**. Fires Spike in Protected Areas: Unforeseen Costs of Colombian Peace. *Nature Ecology and Evolution* **3**: 20–23. DOI: [10.1038/s41559-018-0727-8](https://doi.org/10.1038/s41559-018-0727-8)
- 2018 Sadier, A.°, K.T.J. Davies°, **L. Yohe†**, K. Yun, **P. Donat†**, B.P. Hedrick°, E.R. Dumont, **L.M. Dávalos***, S.J. Rossiter*, K.E. Sears*. Evidence for multifactorial processes underlying phenotypic variation in bat visual opsins. *eLife* **2018**;7:e37412. *Co-corresponding authors. DOI: [10.7554/eLife.37412](https://doi.org/10.7554/eLife.37412)
- 2018 Rojas, D.◊, M. Moreira, M.J. Ramos Pereira, C. Fonseca, **L.M. Dávalos**. Updated distribution maps for neotropical bats in the superfamily Noctilionoidea. *Ecology* **99**(9): 2131. DOI: [10.1002/ecy.2404](https://doi.org/10.1002/ecy.2404) (Data Paper)
- 2018 Dávalos, E., L. Morales, J. Holmes*, **L.M. Dávalos**. Opposition Support and the Experience of Violence Explain the Colombian Peace Referendum. *Journal of Politics in Latin America* **10**(2): 99–122. *Corresponding author.
- 2018 Hedrick, B.P.°, L. Yohe†, A. Vander Linden, **L. M. Dávalos**, K. Sears, A. Sadier°, S.J. Rossiter, K.T.J. Davies°, E. Dumont. Assessing Soft-Tissue Shrinkage Estimates in Museum Specimens Imaged With Diffusible Iodine-based Contrast-Enhanced Computed Tomography (diceCT). *Microscopy and Microanalysis* **24**(3): 284–291. DOI: [10.1017/S1431927618000399](https://doi.org/10.1017/S1431927618000399)
- 2018 Yohe, L.†, **L.M. Dávalos**. Genetic function of *Trpc2* predicts accessory olfactory bulb form in bat vomeronasal evolution. *Biological Journal of the Linnean Society* **123**(4): 796–804. DOI: [10.1093/biolinnean/bly015](https://doi.org/10.1093/biolinnean/bly015)
- 2018 Holmes, J.S., A. Palao Mendizabal°, D. Saucedo De La Fuente, K. Mets†, A. Cárdenas, D. Armenteras, **L.M. Dávalos**. Identifying municipal risk factors for leftist guerrilla violence in Colombia. *Peace Economics, Peace Science and Public Policy* **24**(2): 23–51. DOI: [10.1515/peps-2017-0009](https://doi.org/10.1515/peps-2017-0009)
- 2018 Tavares, V.d.C.*°, O.M. Warsi†, F. Balseiro, C. Mancina, **L.M. Dávalos***. Out of the Antilles: Fossil Phylogenies Support Reverse Colonization of Bats to South America. *Journal of Biogeography* **45**(4): 859–873. *Equal contribution. DOI: [10.1111/jbi.13175](https://doi.org/10.1111/jbi.13175)
- 2018 Rojas, D.◊*, M.J. Ramos Pereira, C. Fonseca, **L.M. Dávalos***. Eating down the food chain: generalism is not an evolutionary dead end for herbivores. *Ecology Letters* **21**(3): 402–410. *Corresponding authors. DOI: [10.1111/ele.12911](https://doi.org/10.1111/ele.12911) **Corrigendum**: DOI: [10.1111/ele.12968](https://doi.org/10.1111/ele.12968)

- 2018 Teeling, E., S. Vernes, **L.M. Dávalos**, D.A. Ray, M.T. Gilbert, E. Myers, and the Bat1K Consortium. Bat Biology, Genomes, and the Bat1K Project: to generate chromosome-level genomes for all living bat species. *Annual Review of Animal Biosciences* 6, 23-46. DOI: 10.1146/annurev-animal-022516-022811
- 2017 Thompson, L.R., Sanders, J.G., McDonald, D., Amir, A., Ladau, J., Locey, K.J., Prill, R.J., Tripathi, A., Gibbons, S.M., Ackermann, G., Navas-Molina, J.A., Kopylova, E., Vázquez-Baeza, Y., Janssen, S., Morton, J.T., Mirarab, S., Xu, Z.Z., Haroon, M.F., Kanbar, J., Zhu, Q., Gonzalez, A., Song, S.J., Kosciulek, T., Bokulich, N.A., Lefler, J., Brislawn, C.J., Humphrey, G.C., Owens, S.M., Hampton-Marcell, J., Berg-Lyons, D., McKenzie, V., Fierer, N., Fuhrman, J.A., Clauset, A., Stevens, R.L., Shade, A., Pollard, K.S., Goodwin, K.D., Jansson, J.K., Gilbert, J.A., Knight, R., The Earth Microbiome Project Consortium*. A communal catalogue reveals Earth's multiscale microbial diversity. *Nature* 551, 457–463. DOI: 10.1038/nature24621 * As part of this massive consortium.
- 2017 Cooke, S.B., **L.M. Dávalos***, A. Mychajliw°, S.T. Turvey, N.S. Upham°. Anthropogenic Extinction Dominates Holocene Declines of West Indian Mammals. *Annual Review of Ecology, Evolution, and Systematics* 48, 301-327. Equal contribution by all authors. *Corresponding author. DOI: 10.1146/annurev-ecolsys-110316-022754
- 2017 Mets, K.D.‡, D. Armenteras, **L.M. Dávalos**. Spatial autocorrelation reduces model precision and predictive power in deforestation analyses. *Ecosphere* 8(5), e01824. DOI: 10.1002/ecs2.1824
- 2017 Armenteras, D., C. Gibbes, J. Anaya, **L.M. Dávalos**. Integrating remotely sensed fires for predicting deforestation for REDD+. *Ecological Applications* 27(4), 1294-1304. DOI: 10.1002/eap.1522
- 2017 Yohe, L.R.‡, R. Abubakar†, C. Giordano‡, E. Dumont, K. Sears, S. Rossiter, **L.M. Dávalos**. *Trpc2* pseudogenization dynamics in bats reveal ancestral vomeronasal signaling, then pervasive loss. *Evolution* 71(4), 923-935. DOI: 10.1111/evo.13187
- 2017 Valente, L., R. Etienne, **L.M. Dávalos***. Recent extinctions disturb path to equilibrium diversity in the Caribbean. *Nature Ecology and Evolution* 1, 0026. *Corresponding author. DOI: 10.1038/s41559-016-0026
- 2016 **Dávalos, L.M.**, K.M. Sanchez°, D. Armenteras. Deforestation and Coca Cultivation Rooted in 20th-Century Development Projects. *Bioscience* 66(11), 974-982. DOI: 10.1093/biosci/biw118
- 2016 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* 18(1), 269–278. DOI: 10.3161/15081109ACC2016.18.1.016
- 2016 Herrera, J.‡, **L.M. Dávalos**. Phylogeny and divergence times of lemurs inferred with recent and ancient fossils in the tree. *Systematic Biology* 65(5), 772-791. 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* 65(3), 432-448. DOI: 10.1093/sysbio/syw011
Erratum: DOI: 10.1093/sysbio/syw118
- 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. *Corresponding authors. DOI: 10.1186/s12862-015-0315-3
- 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 Caribaeae* 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. *Equal contribution. DOI: 10.1644/14-MAMM-A-107

- 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. *Equal contribution. DOI: 10.1111/evo.12358
- 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. *Equal contribution. DOI: 10.1093/molbev/msu043
- 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. *Equal contribution. 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. *Equal contribution. DOI: 10.1098/rspb.2011.2005
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University Teaching

Undergraduate courses taught at SUNY Stony Brook

4.0 credits	Statistics and Data Analysis: A Conceptual Approach, BIO 211, Fall 2017-current
3.0 credits	Conservation Biology, BIO 336 offered first Spring 2010, then Fall 2010-current
1.5 credits/instructor	General Ecology, BIO113 (with D. Padilla) 2010

Undergraduate Research Supervising (molecular and bioinformatics lab) and Mentoring

Spring-Spring 2019	Sarah Heder
Summer-Fall 2018	Kaitlyn Malewicz
Summer 2017	Yakov Pichkar
Fall 2014-Spring 2017	John Navilio
Spring 2014-Spring 2016	Greg Poterewicz
Summer 2015-Spring 2016	Ramatu Abubakar (SBU), Sanah Afzal (John Jay College), Margarita Bartasunaite (John Jay College), Bhavana Patil (SBU)
Spring 2013	Rachel Lohrdal (Anthropology program)
Fall 2012-Spring 2013	Yesha Shah
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

Intensive 3 3-hr –session workshop	Taller de escritura científica en ecología y biología evolutiva (Scientific writing workshop for ecology and evolutionary biology) 11-12 March 2019 at Universidad Nacional of Colombia. With Danny Rojas and Laurel Yohe.
2.0 credits	Seminar on the ecology and evolutionary biology of early state formation, BEE 692 2018
4 lectures on phylogenetics	Principles of Evolution BEE551 Fall 2013
Intensive 3 8-hr day workshop	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	Principles of Evolution BEE551 Fall 2012
2.0 credits/person	Principles and Applications of Ecology and Evolution BEE 576 (currently with J. Gurevitch) offered every Fall 2011-2016
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 2018	William Thomas, SBU-Ecology and Evolution
Joined PhD Fall 2017	Anna McPherran, SBU-Ecology and Evolution
Joined PhD Fall 2014	Kristjan Mets, SBU-Ecology and Evolution
Joined PhD Fall 2012	Fanny Cornejo , SBU-Anthropology Fanny Cornejo (SBU-Anthropology)
Joined PhD Fall 2008	M. Elise Lauterbur, SBU-Ecology and Evolution
E&E PhD, Fall 2018	Marisa Lim SBU-Ecology and Evolution (co-advised with C. Graham)
E&E MA, Spring 2018	Elizabeth Fitzgerald, SBU-Ecology and Evolution
E&E MA, Spring 2018	Alexander Lengers, SBU-Ecology and Evolution
E&E PhD, Spring 2017	Laurel Yohe, SBU-Ecology and Evolution
E&E MA, Spring 2017	Katherine (Katie) R. Martin, SBU-Ecology and Evolution
MSc, Fall 2014	Maria Alejandra Chadid, masters student at <i>Universidad Nacional</i> (Bogota, Colombia)
E&E MA, Spring 2014	Xiayou Zhang, SBU-Ecology and Evolution
E&E MA dropout Spring 2014	Shaelyn Bishop, 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
BSc, Spring 2011	Miguel Santiago Núñez, undergraduate student at <i>Universidad Autónoma de Santo Domingo</i> (UASD)
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	David Carlson (SBU-E&E), James Herrera (SBU-Anthropology, graduated Spring 2015), Joseph Kelly (SBU-E&E), Maureen Lynch (SBU-E&E), Shannon Morgan (SUNY Albany, graduated Spring 2015), Miguel Pinto (CUNY-Graduate Center, graduated Fall 2014), Lisa Prowant (SBU-E&E), Vladimir Rojas (Universidad del Valle-Biology, graduated Fall 2012), Haeyeong Ryu (SBU-E&E, MA Fall 2016), Gena Sbeglia (SBU-E&E, graduated Spring 2017), Anusha Shankar (SBU-E&E, graduated Fall 2019), Nicolette Sipperly (SBU-E&E), Mihir Umarani (SBU-E&E), David Vanier (IDPAS), Nicolas Wiggengerhauser (IDPAS)

Postdoctoral supervising

Summer 2017-Spring 2018	Dr. Laurel Yohe (NSF postdoctoral fellow at Yale University)
Spring 2013-Fall 2016	Dr. Danny Rojas (Assistant professor at Universidad Javeriana, Cali, Colombia)
Fall 2013-Summer 2015	Dr. Marianne Moore (Assistant professor at Arizona State University, Mesa)

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 2019	Chair, preliminary exam committee
Fall 2017	Evaluator for BIO204 Phylogenetics lab session
Fall 2012-present	Department representative at Undergraduate Biology Executive Committee
Spring 2013-Fall 2015	Member, Masters program 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 2019	Member Dean's committee on Global Environment/Energy and Natural Resources
Spring 2018-Spring 2019	Member search committee joint TBI-E&E hire
Spring 2017	Lab selected for Stony Brook University promotional video "The Future is Now" https://www.youtube.com/watch?v=J1Zg7_QT1zY
Spring 2016-Spring 2017	Diversity Working Group
Fall 2016-Spring 2017	Member search committee joint GHI-E&E hire
Spring 2014	Tinker Grant Committee
Fall 2013	Interviewer of Global Health Initiative Director
Fall 2013	Globalization initiative writing committee member
Spring 2013	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 2008-2010	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 2010	Mentoring research of Peter Connell (admitted at SUNY College of Environmental 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

2019-present	Bat Conservation International (BCI) Science Advisory Board member
Summer 2018	Convener with Sharlene Santana and Guillaume Chomicki of the symposium on ecological interactions at the II Joint Congress on Evolutionary Biology (Montpellier, France)
2017-present	Associate Editor, <i>Mastozoología Neotropical</i>
2017-present	Editor, <i>Quarterly Review of Biology</i>
January 2016-December 2019	Elected Council member, Society for Systematic Biology
Summer 2016	Convener with Elizabeth Dumont and Karen Sears of the bat sensory symposium at the 17 th International Bat Research Congress (Durban, South Africa)
2015-2016	Consultant for the United Nations 2016 World Drug Report thematic chapter on environmental sustainability
Spring 2015	NSF Division of Environmental Biology Panelist

2013-2016	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 Division of Environmental Biology 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
2012-2018	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-present	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-present	Ad hoc grant reviewer for the <i>Agence Nationale de la Recherche</i> , National Geographic Society, and the United States National Science Foundation (NSF).
2004-present	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>Communications Biology</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>Nature Ecology and Evolution</i> , <i>Molecular Ecology Notes</i> (currently <i>Mol. Ecol. Resources</i>), <i>Molecular Phylogenetics and Evolution</i> , <i>Nature Ecology 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>Systematic Biology</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>Environmental Science & Technology</i> , <i>Emu</i> , <i>Ornitologia 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 (Prague, Czech Republic)
2009 & 2011	Judge of the North American Society of Bat Research student platform competition.
Fall 2009	NSF Division of Biological Infrastructure 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

2013-present	Society for Systematic Biology, Life Member
2017-2018	Society for Conservation Biology

2014-2018	Society for the Study of Evolution
2012-2016	International Biogeography Society
2008-present	North American Society for Bat Research
2005-2006	American Society of Mammalogy