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https://lmdavalos.github.io/

# Liliana M. Dávalos

## Recent Experience

## Fall 2008– present

## Stony Brook University, USA

Assistant Professor (2008–2014), Associate Professor (2014–2018), Full Professor (2018–present): Department of Ecology and Evolution, Consortium for Inter–Disciplinary Environmental Research

- Instructor and research lab leader
- External fundraising for research: >\$6.2M, >\$3.1M as lead principal investigator
- Internal team management: >10-person team of scientists ranging from undergraduate students to postdoctoral researchers
- Generating, coordinating, and leading collaborations: successfully delivering global multidiscipline projects

#### 2020-2023

#### Society for Systematic Biologists

#### **Awards Director**

- Judging panel convener and organizer for three annual awards
- Allocated \$150K in research awards based on scientific merit primarily to graduate students
- Generated instructions and rubrics to improve chance from applicants from diverse backgrounds
- Coordinated and conducted surveys in support for diversity, inclusion, and equity goals

#### 2021-2022

#### United Nations Office on Drug and Crime

Consultant for the United Nations 2022 World Drug Report thematic chapter

- Study designer and data analyst
- Analyzed literature on main deforestation drivers in the Amazon
- Designed, interpreted, and visualized Bayesian geostatistical models
- Coordinated and wrote the report

2007–

#### American Museum of Natural History, New York, USA

present

Research Associate, Division of Vertebrate Zoology

#### 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	Certificate (Oct) 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)

Pending	"Toward automated and predictive functional characterization of transposon-mediated genomic
	change" co-PI, National Institutes of Health, \$616,812 to SBU, 3,287,452 total.
2023-2026	"MCA: Diversification dynamics and comparative genomics of the birds of Madagascar"
	Partner, National Science Foundation, \$26,134 to SBU, \$317,738 total.
2023-2024	"Estimating the Impact of Narcotrafficking on Amazon Forest Conversion and Land Grabbing",
	PI, Fulbright Amazonia, \$40,000 to awardee. (11%)
2022-2025	2217296: "Collaborative Research: Integrated mechanisms of environment-host-virome
	interactions" PI, National Science Foundation, \$739,197 to SBU, \$2,134,953 total.
2022-2024	"Co-evolution of viruses with host genome-editing enzymes in bats" co-PI, New Frontiers of
	Research Fund (NFRF), \$100,186 to SBU, CAD250,000 total.
2020-2025	2020577: "Collaborative Research: AccelNet: Global Union of Bat Diversity Networks
	(GBatNet): Bats as a model for understanding global vertebrate diversification and
	sustainability" PI, National Science Foundation, \$185,025 to SBU, \$1,670,697 total. (8 funded)

# Honors and Awards (Last 10 years)

2023 Glas	er Visiting	Professor.	Florida	International	University	/ Biology	Department.
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2022 Award for Excellence in Assessment, <u>Stony Brook University Center for Excellence in Learning and Teaching Celebration of Teaching Awards</u>

2021 Margolin Environmental Affairs Lecture, Middlebury College.

2016 Elected to the Council. Society for Systematic Biology

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

## **Publications**



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

H-index: 43, i10-index: 97, total cites: 8,548 Most cited paper: Thompson et al. 2017 (2156)

Most cited lead author paper: Reddy and Dávalos 2003 (510)

Peer-reviewed journal articles (106 published, 6 in process; SBU †undergraduate, ‡graduate, \$\phi\$postdoctoral trainee; \$\phi\$non SBU mentee)

Submitted Thomas, W.R.‡\*, D.K.N. Dechmann, J. Nieland, C. Baldoni, D. Carlson, D.v. Elverfeldt, J. Holm-

Jacobsen, M. Muturi, A. Corthals, L.M. Dávalos\*. Molecular mechanisms of seasonal brain

shrinkage and regrowth in *Sorex araneus*. *Genome Biology*. biorXiv DOI: 10.1101/2023.10.02.560485 \*Corresponding authors, fequal contribution.

Submitted Baldoni, C., K. Raptis, M. Farantouri, I. Lenzi, J. Lim, M. Menz, M Muturi, M. Reisert, M.A.

**Bedoya Duque°**, **W. Thomas**◊, **L. Dávalos**, J. Nieland, D. von Elverfeldt, D. Dechmann. Captivity alters behavior but not seasonal brain size change in semi–naturally housed shrews. *Journal of Europeige and Richard* 

Experimental Biology.

Submitted Yohe, L.R.\*, L.B. Miller, Z.A. Kaliszewska, S.R. Whitehead, S.E. Santana, and **L.M. Dávalos\***.

Testing for reciprocal trait influence in plant-frugivore interactions using generalized joint

attribute modeling. American Naturalist. biorXiv DOI: 10.1101/2024.01.17.576112 \*Corresponding authors. Morales, A.E., Y. Dong, T. Brown, K. Baid, D-G. Kontopoulos, V. Gonzalez, Z. Huang, A-W. In revision Ahmed, L. Hilgers, S. Winkler, G. Hughes, X. Li, B.M. Kirilenko, P. Devanna, T.M. LamaO, Y. Nissan, M. Pippel, L.M. Dávalos, S.C. Vernes, S.J. Puechmaille, S.J. Rossiter, Y. Yossi, J.B. Prescott, A. Kurth, D.A. Ray, B.K. Lim, E. Myers, E.C. Teeling, A. Banerjee, A.T. Irving, M. Hiller. Reference-quality bat genomes illuminate adaptations to viral tolerance and disease resistance. Nature. Research Square DOI: 10.21203/rs.3.rs-2557682/v1 In 2<sup>nd</sup> Bedoya Duque, M.A.+, W.R. Thomas‡\*, D.K.N. Dechmann, J.D. Nieland, C. Baldoni, D. Von review Elverfeldt, M. Muturi, A.P. Corthals, L.M. Dávalos\*. Large captivity effect based on gene expression comparisons between captive and wild shrew brains. Physiological Genomics. biorXiv DOI: 10.1101/2023.10.02.560583 \*Corresponding authors. Guevara Andino, J.E., L.M. Dávalos, F. Zapata, M.J. Endara, D.D. Cotoras, J. Chaves, S. Accepted Claramunt, J. López-Delgado, A.M. Mendoza-Henao, D. Salazar-Valenzuela, J. Yeager. Neotropics as a cradle for adaptive radiations. Cold Spring Harbor Perspectives in Biology. 2024 Song, J-H, L.M. Dávalos, T. MacCarthy, M. Damaghi. Evolvability of cancer-associated genes under APOBEC3A/B selection. iScience 109433. DOI: 10.1016/j.isci.2024.109433 2023 Anthwal, N., R. Hall, F. de la Rosa Hernandez, M. Kroger, L. Yohe, B. Hedrick, K. Davies, G. Mutumi, C. Roseman, E. Dumont, L.M. Davalos, S. Rossiter, A. Sadier, K. Sears. Cochlea development shapes bat sensory system evolution. Anatomical Record 2023: 1-12. DOI: 10.1002/ar.25353 2023 Weber, N., M. Nagy, W. Markotter, J. Schaer, S. Puechmaille, J, Sutton, L.M. Dávalos, M-C. Dusabe, B. Fenton, M. Knörnschild, A. López-Baucells, R. Medellín, M. Metz, S. Mubareka, T. O'Mara, O. Nsengimana, P. Racey, M. Tuttle, I. Twizeyimana, A. Vicente-Santos, M. Tschapka, C. Voigt, M. Wikelski, D. Dechmann, D. Reeder. Robust evidence for bats as reservoir hosts is lacking in most African virus studies - a review and call to optimize sampling and conserve bats. Biology Letters 19(11): 20230358. DOI: 10.1098/rsbl.2023.0358 2023 Castellanos, F.X.°, D. Moreno-Santillan\*, G.M. Hughes, N.S. Paulat, N. Sipperly‡, A. Brown‡, K. Martin‡, M.C. Lim‡, A.L. Russell, M.S. Moore◊, M. Johnson, A.P. Corthals, D. Ray\*, L.M. Davalos\*. Evolution of antimicrobial peptides in Chiroptera. Frontiers in Immunology **14**:1250229. DOI: 10.3389/fimmu.2023.1250229 \*Corresponding authors. 2023 Delamonica, B.‡, L. Davalos, M. Larijani, S. Anthony, T. MacCarthy. Evolutionary potential of the monkeypox genome arising from interactions with human APOBEC3 enzymes. Virus Evolution 9(2): vead047. DOI: 10.1093/ve/vead047 2023 Baldoni, C.\*, W. Thomas‡\*, D. Von Elverfeldt, M. Reisert, J. Làzaro, M. Muturi, L.M. Dávalos, J.D. Nieland, D.K.N. Dechmann. Histological and MRI brain atlas of the common shrew, *Sorex* araneus, with brain region specific gene expression profiles. Frontiers in Neuroanatomy 17: 1662-5129. DOI: 10.3389/fnana.2023.1168523 \*Joint first authors. 2023 Osmanski, A.B., N.S. Paulat, J. Korstian, J.R. Grimshaw, M. Halsey, K.A.M. Sullivan, D.D. Moreno-Santillánº, C. Crookshanks, J. Roberts, C. Garcia, L.M. Dávalos, M.G. Johnson, L.D. Densmore, R. D. Stevens, Zoonomia Consortium, J. Rosen, J. M. Storer, R. Hubley, A.F.A.

- Smit, D.A. Ray. Insights into mammalian TE diversity via the curation of 200+ mammalian genome assemblies. Science 380(6643): eabn1430. DOI: 10.1126/science.abn1430 2023
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- 2023 Barreto, E., M. Limt, D. Rojas, L.M. Dávalos, A. Machac, C. Graham. Not all traits influence hummingbird diversification, but their evolutionary rates do. Proceedings of the Royal Society B: Biological Sciences 290(1997): 20221793. DOI: 10.1098/rspb.2022.1793
- 2023 Mutumi, G.L.°, R.P. Hall, B.P. Hedrick, L.R. Yohe◊, A. Sadier, K.T.J. Davies, S.J. Rossiter, K.E. Sears, L.M. Dávalos, E.R. Dumont. Disentangling mechanical and sensory modules in the

radiation of Noctilionoid bats. *American Naturalist* **202**(8): 216-230. DOI: 10.1086/725368

2023 Michielsen, N.M., S.M. Goodman, V. Soarimalala, A.A.E. van der Geer, **L.M. Dávalos**, G.I. Saville, N. Upham, L. Valente. The macroevolutionary impact of recent and imminent extinctions of mammals in Madagascar. *Nature Communications* **14**: 14. DOI: 10.1038/s41467-022-35215-3

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- Leadley, P., D. Obura, L. Shannon, M. Cecilia, K. Millette, A. Rankovic, E. Archer, F. Ato, N. Bax, A. Kutchhi, J.M. Costello, **L.M. Dávalos**, F. de Oliveira Roque, F. DeClerck, L. Dee, F. Essl, S. Ferrier, S. Hashimoto, C. Ifejika, F. Isbell, M. Kok, S. Lavery, D. Leclère, R. Loyola, S. Lwasa, M. McGeoch, A.S. Mori, E. Nicholson, J. Manuel, K. Öllerer, S. Polasky, C. Rondinini, O. Selomane, B. Strassburg, R. Sumaila, D.P. Tittensor, E. Turak, L. Urbina, M. Vallejos, E. Vázquez-Domínguez, P. Verburg, P. Visconti, S. Woodley, J. Xu, S. Jellesmark. Achieving global biodiversity goals by 2050 requires urgent and integrated actions. *One Earth* **5**(6): P597-603. DOI: 10.1016/j.oneear.2022.05.009
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- Mohammed, R.S., G. Turner, K. Fowler, M. Pateman, M.A. Nieves-Colón, L. Fanovich, S.B. Cooke, **L.M. Dávalos**, S.M. Fitzpatrick, C.M. Giovas, M. Stokowski, A.A. Wrean, M. Kemp, M.J. LeFebvre, A.M. Mychajliw. Colonial legacies influence biodiversity lessons: how past trade routes and power dynamics shape present day scientific research and professional opportunities for Caribbean scientists. *American Naturalist* **200**: 140-155. DOI: 10.1086/720154
- 2021 Porzecanski, A., A. Bravo, M. Groom, **L.M. Dávalos**, N. Bynum, B. Abraham, J. Cigliano, C. Griffiths, D. Stokes, E. Sterling. Using Case Studies to Improve the Critical Thinking Skills of Undergraduate Conservation Students. *Case Studies in the Environment* 5(1): 1536396. DOI: 10.1525/cse.2021.1536396
- Dávalos, L.M., E. Dávalos, J.S. Holmes, C. Tucker‡, D. Armenteras. Forests, coca, and conflict: grass frontier dynamics and deforestation in the Amazon-Andes. *Journal of Illicit Economies and Development* **3**(1): 74–96. DOI: 10.31389/jied.87
- 2021 Potter, J.H.T.°\*, R. Drinkwater, K.T J. Davies°, M.C.W. Lim‡, L.R. Yoheô, X. Zhang, H. Chi, I.

Levantis, B.K. Lim, C.C. Witt, G. Tsagkogeorga, M. dos Reis, Y. Liu, W. Furey, M.J. Whitley, D. Aksentijevic, **L.M. Dávalos**, S.J. Rossiter\*. Nectar-feeding bats and birds show parallel molecular adaptations in sugar metabolism enzymes. *Current Biology* **31**(20): 4667-4674. DOI: 10.1016/j.cub.2021.08.018 \*Corresponding authors.

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- Santana, S.E.\*, Z.A. Kaliszewska°\*, L.B. Leiser-Miller°, **M.E. Lauterbur**◊, J.H. Arbour, **L.M. Dávalos**, J.A. Riffell. Fruit odorants mediate co-specialization in a multispecies plant-animal mutualism. *Proceedings of the Royal Society B: Biological Sciences* **288**: 28820210312. DOI: 10.1098/rspb.2021.0312 \*Equal contribution.
- Lertxundi, U., S. Domingo-Echaburu, **L.M. Dávalos**, G. Orive. Drug pollution & Sustainable Development Goals. *Science of the Total Environment* **800**: 149412. DOI: 10.1016/j.scitotenv.2021.149412
- Yohe, L.R.⋄, L.B. Leiser-Miller, Z.A. Kaliszewska, P. Donat‡, S.E. Santana, L.M. Dávalos.

  Diversity in olfactory receptor repertoires is associated with dietary specialization in a genus of frugivorous bat. *G3: Genes*|*Genomes*|*Genetics* 11(10): jkab260. DOI: 10.1093/q3journal/jkab260
- Moreno Santillan, D.°, T. Lama¢, Y.G. Guerrero, A. Brown‡, P. Donat‡, H. Zhao, S. Rossiter, L.R. Yohe¢, J. Potter, E.C. Teeling, S. Vernes, K.T.J. Davies, E. Myers, G. Hughes, Z. Huang, F. G. Hoffmann, A.P. Corthals, D. Ray\*, L.M. Dávalos\*. Large-Scale Genome Sampling Reveals Unique Immunity and Metabolic Adaptations in Bats. *Molecular Ecology* 30(23): 6449-6467. DOI: 10.1111/MEC.16027 \*Corresponding authors.
- Hall, R.P.°, G. Mutumi°, B.P. Hedrick, L.R. Yohe⋄, A. Sadier°, K.T.J. Davies°, S.J. Rossiter, K. Sears, L.M. Dávalos, E.R. Dumont. Find the Food First: An Omnivorous Sensory Morphotype Predates Biomechanical Specialization for Plant Based Diets in Phyllostomid Bats. *Evolution* 75(11): 2791-2801. DOI: 10.1111/evo.14270
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- Lim, M.‡, K. Bi, C. Witt, C. Graham, L. Dávalos. Pervasive genomic signatures of local adaptation to altitude across highland specialist Andean hummingbird populations. *Journal of Heredity* 112(3): 229-240. DOI: 10.1093/jhered/esab008
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Development Studies **56**(6): 1118-1140. DOI: 10.1080/00220388.2019.1650167

Shankar, A.‡, D.R. Powers, L.M. Dávalos, C.H. Graham. The allometry of daily energy expenditure in hummingbirds. *Journal of Animal Ecology* **89**: 1254-1261. DOI: 10.1111/1365-2656.13185

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- 2000 **Dávalos, L.M**. La perspectiva ambiental en la mesa de diálogo. *El Tiempo* (Bogotá) 1 September 2000.
- Dávalos, L.M. El Futuro de los bosques de Colombia: ¿será la paz peor que la guerra? El Tiempo (Bogotá) 21 August 2000.
- 2000 **Dávalos, L.M**. Cuál justicia. *El Tiempo* (Bogotá) 15 July 2000.
- 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 (33 published)

- Shankar, A. ‡, Davalos, L.M., Powers, D. R., & Graham, C. H. Energy budgets to explain allometry: lessons from flying ninja hummingbirds. I *Integrative and Comparative Biology* 61, E815-E816.
- Santana, S. E., Kaliszewska, Z. A., Leiser-Miller, L. B., **Lauterbur, M. E.**‡, Arbour, J. H., **Davalos, L. M.**, & Riffell, J. A. Evolution of fruit scent in neotropical pepper plants: a test of the dispersal syndrome hypothesis. *Integrative and Comparative Biology* 61, E784-E785.
- Dávalos, L.M. GBatNet, red de redes para investigación quiropterológica. *Boletín de la Red Latinoamericana y del Caribe para la Conservación de los Murciélagos* 11(1): 7-8 https://www.relcomlatinoamerica.net/images/PDFs/Boletines/2020-11-1-Ene-Abr.pdf
- Dávalos, L.M. What we know and don't know about the origins of SARS-CoV2. *GBatNet* 15 April https://gbatnet.blogspot.com/2020/04/what-we-know-and-dont-know-about.html
- Dávalos, L.M., N. Upham. Coronavirus was low risk until it wasn't. Climate change is the same. Medium 27 March <a href="https://tinyurl.com/ybntztjs">https://tinyurl.com/ybntztjs</a>
- 2019 **Dávalos, L.M.** Vampire bats help unravel mystery of mammalian sense of smell. Nature Ecology and Evolution *Community Post* 16 September 2019.
- Dávalos, L.M. <u>Discovering the steps to phenotype loss: the case of bat opsins.</u> Nature Ecology and Evolution *Community Post* 16 January 2019.

2017 **Dávalos, L.M**. <u>Long-Term Diversity Equilibrium on Islands in a Rapidly Changing World.</u> Nature Ecology and Evolution *Community Post* 9 January 2019.

- 2016 Moore, M.S., G.M. Poterewicz, **L.M. Dávalos**. Genomic Inventories of Bat Antimicrobial Peptides: Implications for Resistance to White-nose Syndrome. *Integrative and Comparative Biology* 56, E152-E152.
- 2016` Yohe, L.R., K. Davies, S.J. Rossiter, **L.M. Dávalos**. Selection on the sniffer: olfactory receptor evolution shows association with diet. *Integrative and Comparative Biology* 56, E246-E246.
- 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 Corrider, Southeast Madagascar. *American Journal of Primatology* 77, 95-95.
- 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.
- 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.
- 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.
- 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.
- Dávalos, L.M., A.L. Russell. False Positive and False Negative Error Rates in Mitochondrial Species Delimitation. *Bat Research News* 52(4), 69.
- 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.
- 2011 Russell, A., W.C. Lancaster, B. Lei, **L.M. Dávalos**. Genetic Demography of *Pteronotus parnellii* Reveals Historic Isolation of Island Populations. *Bat Research News* 52(4), 98.
- Proffitt, J., N.B. Simmons, P.M. Velazco°, **L.M. Dávalos**. Evolutionary Relationships of Living and Fossil Vampire Bats. *Bat Research News* 52(4), 94.
- Wetterer, A.L.\*, **L.M. Dávalos**, J.H. Geisler, N.B. Simmons. Revisiting phyllostomid bat phylogeny: a combined analysis of morphological and molecular data. *Bat Research News* 50(4), 153.
- Simmons, N.B., P.D. Smits, P.M. Velazco°, G.F. Gunnell, **L.M. Dávalos**. A new approach to studying dental evolution. *Bat Research News* 50(4), 142-143.
- 2009 Lancaster, W.C., A.L. Russell, Y. León, M.S. Núñez, **L.M. Dávalos**. Constant frequency call as determinants of divergence between Antillean populations of *Pteronotus parnellii* (Mormoopidae). *Bat Research News* 50(4), 118-119.
- Goldberg, A., A.L. Russell, Y. León, M.S. Núñez, **L.M. Dávalos**. How to store Mammalian tissues for DNA-based analyses in tropical field conditions. *Bat Research News* 50(4), 108.
- Dávalos, L.M., A.L. Russell. Island area change, not species range, explains bat extinction in the West Indies. *Bat Research News* 50(4), 101-102.
- Dávalos, L.M., A.L. Russell. A quantitative approach to historical ecology of the West Indies: Artibeus jamaicensis. Bat Research News 49(4), 113-114.
- Russell, A.L., **L.M. Dávalos**. Dynamics of gene flow and extinction in island metapopulations under climate change: model discrimination through population genetic simulations. *Bat Research News* 49(4), 166-167.
- Dávalos, L.M., V.d.C. Tavares. Merging Historical and Ecological Biogeography for the Short-faced Bats. *Bat Research News* 44(4), 199.
- 2007 **Dávalos, L.M.**, A. Tejedor. Natalid Dispersal with Conserved Niches. *Bat Research News* 44(4), 199.
- Dávalos, L.M. Historical biogeography of the bats of the West Indies. *Bat Research News* 44(4), 134.
- Dávalos, L.M., V.d.C. Tavares. A total evidence phylogenetic hypothesis for the relationships among Short-Faced bats (Phyllostomidae: Stenodermatina). *Bat Research News* 43(4), 144.

Dávalos, L.M. Species limits and the historical biogeography of the Antillean endemic Genus Brachyphylla. Bat Research News 42(4), 149-150.

Dávalos, L.M., S.A. Jansa. Molecular phylogeny of the New World bat genus *Lonchophylla*. *Bat Research News* 40(4), 168.

## Invited Talks (Last 3 years)

- 26 January, Dávalos, L.M. Opening the Genome Frontier and the Future of Bat Diversity v.2. BINF Seminar.
  - 2024 University of North Carolina, Charlotte, NC, Via Zoom.
- 17 Dávalos, L.M. Abriendo la Frontera Genómica y el Futuro de la Diversidad v.2. Facultad de
- November, Ciencias Naturales. Universidad del Rosario, Bogotá, Colombia.

2023

- 9 **Dávalos, L.M.** Abriendo la Frontera Genómica y el Futuro de la Diversidad. Seminario de
- November, Investigación. Universidad Nacional de Colombia, sede Leticia, Colombia.

2023

- 26 October, Dávalos, L.M. Tendencias actuales en deforestación. Panel temático: Deforestación y
  - 2023 Restauración. Il Simposio Universidades y Amazonía. Universidad Javeriana, Bogotá, Colombia.
  - 12 Dávalos, L.M. Noctilionoid Bats are a Unique Mammalian Radiation, Here's Why. Linnaean
- September, Society of New York, Via Zoom

2023

- 17 March, Dávalos, L.M. Three Proposals for Protecting Forests in the Amazon-Andes. Glaser Seminar
  - 2023 Series. Florida International University, Miami, Florida.
- 16 March, Dávalos, L.M. Opening the Genome Frontier and the Future of Bat Diversity. Glaser Seminar
  - 2023 Series. Florida International University, Miami, Florida.
- 15 March, Dávalos, L.M. Forests, bats, guerrillas: A systems approach for thought and action in the
  - 2023 Anthropocene. Glaser Seminar Series. Florida International University, Miami, Florida.
- 15 March, Dávalos, L.M. Forests Frontier Dynamics and Deforestation in the Amazon-Andes. Glaser
  - 2023 Seminar Series. Florida International University, Miami, Florida.
- 14 March, Dávalos, L.M. How different are bats from non-bats? Insights from the age of -omes. Glaser
  - 2023 Seminar Series. Florida International University, Miami, Florida.
- 13 March, Dávalos, L.M. Sensing in the dark: molecular ecology\* of #BatSenses. Glaser Seminar Series.
  - 2023 Florida International University, Miami, Florida.
    - 16 Dávalos, L.M. Genomics and the Amazon Frontier. The Amazon as a Bioeconomy
- September, Superpower: Investing in Innovation and Technology for Sustainable Development. New York,
  - 2022 NY and via Zoom.
  - 12 Dávalos, L.M. How different are bats from non-bats? Insights from the age of genomes. Biology
- September, Seminar Series. University of Bridgeport, CT, Via Zoom.

2022

- 11 August, Dávalos, L.M. Opening the Genome Frontier and the Future of Bat Diversity. 19th International
  - 2022 Bat Research Conference. Austin, Texas, Via Zoom.
  - 20 July, Dávalos, L.M. Conservation is the work of multitudes: New Literacies for Changing World.
    - North American Congress for Conservation Biology Interactive Session on Expanding Conservation Literacies. Via Zoom.
- 7 July, 2022 Dávalos, L.M. Amazon frontiers and viral risks. A Green and Inclusive Recovery for the Amazon. Science Panel for the Amazon. Via Zoom.
- 6 July, 2022 Dávalos, L.M. Drugs, Crime and Environmental Degradation. Organized Crime and Drug Policy Reform project Latin American Regional Consultation. Global Initiative against Transnational Organized Crime Expert Meeting. Via Zoom.

- 23 June, Dávalos, L.M. Amazon Landscapes and the search for the last frontier. poetics, ethics and
  - 2022 politics of the forest in latin american cultures. Collegium Helveticum. Via Zoom.
- 20 April, Dávalos, L.M. How different are bats from non-bats? Insights from the age of genomes.
  - 2022 Department of Ecology and Evolution Colloquium. Stony Brook University, NY.
- 14 April, Dávalos, L.M. How different are bats from non-bats? Insights from the age of genomes.
  - 2022 Department of Ecology and Evolutionary Biology Seminar. Virginia Tech University. Via Zoom.
- 14 March, Dávalos, L.M. Integrative Biodiversity Science for a Global Future. Department of Biodiversity,
  - 2022 Earth & Environmental Science Seminar. Drexel University. Philadelphia, Pennsylvania and via Zoom.
- 14 January, Dávalos, L.M. Sensing in the dark. Florida Museum's Department of Natural History Seminar
  - 2022 Series, University of Florida. Via Zoom.
    - 22 Dávalos, L.M. Sentir en la oscuridad: ecología molecular de los sentidos de los murciélagos.
- November, Opening Keynote of the IV Congreso Colombiano de Mastozoología. Via Zoom. 2021
  - 19 Gootenberg, P., M. Paredes, M.C. Torres, and L.M. Dávalos. Webinar: Lanzamiento Los
- November, <u>Orígenes de la Cocaína</u> moderated by Maria Alejandra Vélez (CESED, UniAndes). Via Zoom. 2021
  - 18 Spitzer, P., J. Uriarte, and L.M. Dávalos. Approaches to Global and Environmental Issues
- November, moderated by Sophie Raynard-Leroy (Institute for Globalization Studies, UniAndes). Via Zoom. 2021
- 19 October, Dávalos, L.M. Sensing in the dark: molecular ecology\* of #BatSenses. Department of Ecology and Evolutionary Biology Seminar, University of Arizona. Via Zoom.
- 15 October, Dávalos, L.M. Forests, bats, guerrillas: A systems approach for thought and action in the Anthropocene. Living World Open Night Series of the College of Arts and Sciences. Via Zoom.
- 12 October, Dávalos, L.M. Sensing in the dark: molecular ecology\* of #BatSenses. Centre for Biodiversity and Conservation Science Seminar, University of Queensland. Via Zoom.
  - 21 **Dávalos, L.M**. *Forests, drugs, frontiers*. Drugs and the environment: towards a dedicated
- September, booklet for the World Drug Report 2022 UNODC/GIZ Expert Meeting September 20-21. Via Teams.
  - 23 June, Dávalos, L.M. & L.R. Yohe. *Protocols for maximizing future use of bat tissues*. Bats without Borders Webinar. Via Zoom.
  - 21 June, Dávalos, L.M. <u>Diversity in the Skies: Molecular Ecology of #BatSenses</u>. Il Virtual Meeting of
     2021 Systematics, Biogeography and Evolution (SBE). Via Zoom.
  - 27 May, Dávalos, L.M. ¿Cómo interactúan los cultivos ilícitos y la deforestación en Colombia?
    - 2021 Asamblea de Estudiantes, Universidad Nacional de Colombia. Via Zoom.
  - 22 April Dávalos, L.M. Forests, bats, querrillas; A systems approach for thought and action in the
    - 2021 <u>Anthropocene</u>. Margolin Environmental Affairs Lecture, Middlebury College. Via Zoom.
- 12 February Dávalos, L.M. <u>Diversity in the Skies: A Genomic Journey among Bats</u>. Biological Sciences
   & 3 March Darwin Day Seminar, DePaul University and EAWAG. Via Zoom.

## Conference Presentations (Last 3 years)

- 15 July, Michielsen, N.M., S.M. Goodman, V. Soarimalala, A.A.E. van der Geer, L.M. Dávalos, G.I.
  - Saville, N. Upham, L. Valente. *The macroevolutionary impact of recent and imminent mammal extinctions on Madagascar*. 13<sup>th</sup> International Mammalogical Meeting. Via Zoom.
- 28 July, Dávalos, L.M. How different are bats from non-bats? Insights from the age of genomes. II
  - 2022 Virtual Meeting of Systematics, Biogeography and Evolution (SBE). Via Zoom.

26 May, Dávalos, L.M. *Phyllostomid phylogeny is still a work in progress*. World Bat Twitter Conference 2021

## **University Teaching**

Undergraduate courses taught at SUNY Stony Brook

1.5 credits/instructor Global, Cultural, and Environmental Issues, GLI 320 offered Spring 2021, Fall

2022

4.0 credits Statistics and Data Analysis: A Conceptual Approach, BIO 211, offered every

semester Fall 2017–Fall 2018

3.0 credits Conservation Biology, BIO 336/BEE572 offered first Spring 2010, every Fall

2010–2019, Spring 2022, Fall 2022

1.5 credits/instructor General Ecology, BIO113 (con-instructor with D. Padilla) 2010

Undergraduate Research Supervising (molecular and bioinformatics lab) and Mentoring

Spring 2022–Summer

Maria Alejandra Bedoya Duque

2023

Spring 2020–Winter 2023 Trinity Chen Spring 2020–Summer Sarah Vaccaro

2022

Fall 2020–Spring 2021 Mirena Medina Fall 2020–Spring 2021 Isabelle Loop Fall 2020–Spring 2021 Amena Islam Spring 2020–Spring 2021 Jessica Semel Spring 2020–Summer Julie Micko

2021

2016

Summer 2019–Spring

2020

Spring 2018–Spring 2019
Summer–Fall 2018
Summer 2017
Fall 2014–Spring 2017
Spring 2014–Spring 2016
Sarah Heder
Kaitlyn Malewicz
Yakov Pichkar
John Navilio
Greg Poterewicz

Summer 2015–Spring Ramatu Abubakar (SBU), Sanah Afzal (John Jay College), Margarita

Bartasunaite (John Jay College), Bhavana Patil (SBU)

Spring 2013 Rachel Lohrdal (Anthropology program)

Clara Tucker

Fall 2012–Spring 2013

Fall 2012–Spring 2013

Summer 2010–Fall 2010

Spring 2010

Spring 2010

Fall 2009–Spring 2011

Yesha Shah

Donald J. Pantino

Melissa Zheng

Alexander Lucaci

Tiffany Wang

Anne Szeto

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

2.0 credits Seminar Ethics of Genetics and Genomics, BEE 690 (2023)

Intensive 3X 3-hr-session Taller de Escritura Científica en Ecología y Biología Evolutiva (Ecology and

workshop Evolutionary Biology Scientific Writing Workshop) 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 Principles of Evolution BEE551 Fall 2013

phylogenetics

Intensive 3X 8-hr day Análisis Espacial para la Conservación de la Biodiversidad y Manejo de Paisajes

workshop Tropicales (Spatial Analysis for Biodiversity Conservation and Tropical

Landscape Management Workshop) 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 (with J. Gurevitch)

offered every Fall 2011–2016

3.0 credits Conservation Biology, BEE 572 offered Fall 2010–present

1.0 credit Seminar on the evolutionary consequences of anthropogenic activities, BEE 692

(with W. Aguirre) 2009

## Dissertation and other advising

Joined lab Fall 2023

Joined lab Spring 2021

Joined lab Spring 2021

Joined lab Spring 2021

Joined PhD Fall 2019

Joined PhD Fall 2018

Kaylee Johnson, SBU–Ecology and Evolution

Nicolette Sipperly, SBU–Ecology and Evolution

Paul Donat, SBU–Ecology and Evolution

Alexis Brown, SBU–Ecology and Evolution

William Thomas, SBU–Ecology and Evolution

Joined PhD Fall 2012 Fanny Cornejo, SBU–Anthropology (co–advised with P. Wright)
MSc, Spring 2024 Nathan Michielsen, University of Amsterdam–Biological Sciences

E&E MA, Spring 2022 Clara Tucker, SBU–Ecology and Evolution
E&E MA, Spring 2022 Anna McPherran, SBU–Ecology and Evolution
E&E PhD, Spring 2022 Kristjan Mets, SBU–Ecology and Evolution

E&E PhD, Spring 2019 M. Elise Lauterbur, SBU–Ecology and Evolution (co–advised with P. Wright)
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 R. 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 *Universidad Nacional* (Bogota,

Colombia)

E&E MA, Spring 2014 Xiayou Zhang, SBU–Ecology and Evolution Shaelyn Bishop, SBU–Ecology and Evolution

2014

E&E MA, Spring 2014 Samantha DelSerra, SBU–Ecology and Evolution 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 *Universidad Autónoma de* 

Santo Domingo (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 Kate Blackwell (SBU-E&E), David Carlson (SBU-E&E, graduated Spring 2022),

James Herrera (SBU–Anthropology, graduated Spring 2015), Alejandro Gil (SBU–E&E), Joseph Kelly (SBU–E&E, graduated Summer 2020), Maureen Lynch (SBU–E&E, graduated Spring 2019), Shannon Morgan (SUNY Albany, graduated Spring 2015), Miguel Pinto (CUNY–Graduate Center, graduated Fall 2014), Lisa Prowant (SBU–E&E, graduated Spring 2021), Vladimir Rojas (Universidad del Valle–Biology, graduated Fall 2012), Ryan Rothman (SBU–Anthropology), Haeyeong Ryu (SBU–E&E, MA Fall 2016), Gena Sbeglia (SBU–E&E, graduated

(SBU–E&E, graduated Fall 2021), David Vanier (IDPAS graduated Fall 2022), Imogene Welles (SBU–E&E), Nicolas Wiggenhauser (SBU–IDPAS), Megan Wyatt (SBU–E&E)

Postdoctoral supervising (where they are now)

Spring 2023–present Dr. Kristen Rayfield ()

Fall 2020–Summer 2023 Dr. Tanya Lama (Assistant Professor at Smith College)

Summer 2019 Dr. M. Elise Lauterbur (NSF postdoctoral fellow at University of Arizona)

Summer 2017–Spring Dr. Laurel R. Yohe (Assistant Professor at University of North Carolina, Charlotte)

2018

Spring 2013–Fall 2016 Dr. Danny Rojas (Associate Professor at Universidad Javeriana, Cali, Colombia)
Fall 2013–Summer 2015 Dr. Marianne S. Moore (Assistant Professor at the University of the Virgin Islands)

Lab rotation

Fall 2009 Emmanuel Asare (Research Fellow, Albert Einstein College of Medicine)

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 1 lecture in History 380 Topics in Latin American History, instructor: Paul

Gootenberg

## Department Service

Spring 2010

Spring 2009

Fall 2008-2010

Fall 2022–Spring 2023	Member, Graduate Program executive committee
Fall 2021 – Spring 2023	Lead, awards and advancement committee
Fall 2021 – Spring 2023	Lead, newsletter, and communications committee
Summer 2020–Spring	Faculty representative, Code of Conduct committee
2021	
Summer 2020–Spring	Department culture committee member
2021	
2020	Executive committee member
Fall 2019-present	Academic mentor: Dr. Natasha Vitek
Fall 2012–Spring 2020	Department representative at Undergraduate Biology Executive Committee
Spring 2019	Chair, preliminary exam committee
Spring 2018–Spring 2019	Member search committee joint TBI-E&E hire
Fall 2017	Evaluator for BIO204 Phylogenetics lab session
Spring 2013–Fall 2015	Ma program executive committee.
Fall 2012–Spring 2013	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)

Ecology and Evolution Strategic Planning Committee

Ecology and Evolution Graduate Program Admissions committee

Member Steering Committee, SBU-BNL Center for Impacts of Regional Climate

#### Change

# University Service

Fall 2021–present
Fall 2022–Spring 2023
Fall 2023–Spring 2023
Fall 2022–Spring 2023
Fall 2023–Fall 2022–Spring 2023
Fall 2023–Fall 2022–Spring 2023
Fall 2

Spring 2022–present Member, Governor's Island Research Steering Group

Spring 2022–Fall 2022 Member, REACH Visioning Committee

Fall 2020–present Marine Conservation and Policy committee, SOMAS Fall 2019–present Advisory Board for Institute for Global Studies Spring 2022 Moderator, Global Drug History Book Launch

Fall 2021 Lead, Globalization working group, College of Arts and Sciences.
Fall 2021 Entering Mentoring Undergraduate Biology Faculty Panel

Fall 2021 Reviewer, Governors Island RFEI Proposal

Fall 2021 Lead, Climate Change and Natural and Anthropogenic Disaster Prevention-

Mitigation Tiger Team

Spring 2021 Research & Innovation Task force member

Spring 2021 Strategic Research Growth Working Group member Fall 2019–Spring 2020 Member search committee SOMAS ecologist hire

Fall 2019 INSPIRES summary panelist

Spring 2019 Member Dean's committee on Global Environment/Energy and Natural

Resources

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–present 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

# Service to the Community

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, 2nd 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

## Past Experience

## 2015–2016 United Nations Office on Drug and Crime

Consultant for the United Nations 2016 World Drug Report thematic chapter on environmental sustainability

- Reviewed environmental impact of illegal drugs worldwide
- Analyzed new data identifying 1960s/70s development projects as coca and deforestation nuclei
- Helped shift official policy toward considering social sustainability in development projects

### 2007–2008 Open University, Milton Keynes, UK

Lecturer (US equivalent: Assistant Professor): Molecular Ecology

• Generated exercises in evolutionary biology for non-traditional, distance learners

#### 2005–2006 Columbia University, New York, USA

Instructor, Department of Ecology, Evolution, and Environmental Biology (E3B)

Co-designed and co-taught adult learner course: Evolution: from Darwin to DNA

#### 2005–2006 American Museum of Natural History, New York, USA

Postdoctoral Research Associate, PI: Susan L. Perkins

- Generated and aligned genome-based orthologs from malaria parasites
- Discovered and mitigated sources of systematic error in malaria parasite phylogenomics

#### 2004–2005 University of Arizona, Tucson, USA

Postdoctoral Research Associate, PI: Howard Ochman

• Co-designed and implemented strategies for finding prokaryotic pseudogenes

- Discovered the largest set of E. coli pseudogenes ever reported
- Upended conventional wisdom that prokaryotes lack 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

- Collected and analyzed data leading to 17 peer-reviewed publications, most single-author
- Organized and led field expeditions throughout Latin America, including the Caribbean islands
- Assisted teaching and evaluation of undergraduate-level lecture and field courses

#### 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 on 30 August 2007 partly based on this expedition
- First 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 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 <u>Biotechnology Research Unit, Centro Internacional de Agricultura Tropical</u> (CIAT), Cali, Colombia

#### Undergraduate fellow

- Generated rice breeding segregating cross to discover molecular markers of virus resistance
- Conducted DNA extractions and restricted fragment polymorphism analyses

#### 1994–1996 Universidad del Valle, Cali, Colombia

#### Teaching Assistant

 Assisted teaching and evaluation of advanced ecology, evolutionary biology, and genetics undergraduate-level lecture

#### Languages

First language: SpanishMost fluent: English

• Working knowledge: Portuguese, French

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## **Professional Service**

2021-present	Editor in Chief, Quarterly Review of Biology
2019-present	Bat Conservation International (BCI) Science Advisory Board member
2019-present	Associate Editor, Systematic Biology
2020–2023	Awards Director, Society for Systematic Biology
Spring 2023	NSF Division of Environmental Biology Panelist
22–23 March,	Panelist, Conservation X Labs Fire Grand Challenge.
2023	
Fall 2021	Contributor, Connecting the dots between ambitious outcomes for biodiversity and the actions required to achieve them, <a href="Expert Input to the Post-2020 Global Biodiversity">Expert Input to the Post-2020 Global Biodiversity</a>
	Framework of the CBD.
2020–2021	Contributor, Working Group 7: Drivers of Amazon Deforestation, Science Panel for the Amazon
2013-2021	Associate Editor, Quarterly Review of Biology
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)
2017-2020	Associate Editor, Mastozoología Neotropical
2017-present	Executive Board Member, Bat1K
January 2016-	Elected Council member, Society for Systematic Biology
December 2019	
Summer 2016	Convener with Elizabeth Dumont and Karen Sears of the bat sensory symposium at the 17th
	International Bat Research Congress (Durban, South Africa)
Spring 2015	NSF Division of Environmental Biology Panelist
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
0040	April), and 1 3.5–hr workshop (13 April).
2012 2012–2018	27–28 March Socio-Environmental Synthesis Center (SESYNC) Theme Meeting participant Associate Editor, <i>Molecular Phylogenetics and Evolution</i>
2011	Judge of oral presentations at the North American Symposium for Bat Research, Toronto, Ontario.
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 Agence Nationale de la Recherche (France), Biotechnology
	and Biological Sciences Research Council (BBSRC, UK), Consejo Nacional de Ciencia y
	Tecnología (CONACYT, Mexico), National Geographic Society, and the National Science
	Foundation (NSF) of the United States.
2004-present	Ad hoc reviewer in Evolutionary Biology: Acta Chiropterologica, Axios reviews, The
	American Naturalist, Biological Journal of the Linnean Society, BMC Ecology and Evolution,
	BMC Evolutionary Biology, BMC Genomics, Canadian Journal of Zoology, Communications
	Biology, Ecography, Evolution, FEBS Letters, Frontiers in Ecology and Evolution, Frontiers in
	Zoology, Gene, Genetica, Genome Biology and Evolution, Journal of Biogeography, Journal
	of Field Ornithology, Journal of Heredity, Journal of Mammalian Evolution, Journal of

> Mammalogy, Journal of Parasitology, Methods in Ecology and Evolution, Microbiology Open, Molecular Biology and Evolution, Molecular Ecology, Nature Ecology and Evolution, Molecular Ecology Notes (currently Mol. Ecol. Resources), Molecular Phylogenetics and Evolution, Nature Ecology and Evolution, Notes and Records: the Royal Society, PeerJ, Philippine Journal of Science, PLoS One, Proceedings of the Biological Society of Washington, Proceedings of the Royal Society B: Biological Sciences, Quaternary Science Reviews, Scientific Publications of the American Museum of Natural History, Scientific Reports, Systematic Biology, Trends in Ecology and Evolution, University of Chicago Press, Zootaxa.

Ad hoc reviewer in Ecology: Actualidades Biológicas, Caribbean Journal of Science, Chiroptera Neotropical, Diversity and Distributions, Environmental Science & Technology, Emu, Ornitología Neotropical, Quarterly Review of Biology.

Ad hoc reviewer in Conservation Biology: Animal Biodiversity and Conservation, Biodiversity and Conservation, Biological Conservation, Conservation Biology, Ecosphere, Ecosystems, Environmental Science & Technology, Science.

Ad hoc reviewer in Environmental Humanities: Forest Policy and Economics, Journal of Peasant Studies, Landscape and Urban Planning, and Landscape Ecology, Journal of World Systems Research.

Summer 2010 Convener with Nancy Simmons of the bat extinction symposium at the 15th International Bat

Research Congress (Prague, Czech Republic)

2009 Judge of oral presentations at the North American Symposium for Bat Research, Portland,

Oregon

Fall 2009 NSF Division of Biological Infrastructure Panelist

2008-2012 Editorial Board member, Molecular Phylogenetics and Evolution

2008 Judge of oral presentations at the North American Symposium for Bat Research, Scranton,

Pennsylvania

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 1998–present 2014–2015, 2018–2022	Society for Systematic Biology, Life Member North American Society for Bat Research Society for the Study of Evolution
2012–2016	International Biogeography Society
2017–2018	Society for Conservation Biology
2005–2006	American Society of Mammalogy