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https://lmdavalos.github.io/

# Liliana M. Dávalos

# Recent Experience

Fall	2008-
pres	sent

# 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: >\$5M, >\$2M as principal investigator
- Internal team management: >10-person team of scientists ranging from undergraduate to postdoctoral researchers
- Generating, coordinating, and leading collaborations: successfully delivering global multiteam projects

## 2020-

## Society for Systematic Biologists

## present

#### Awards Director

- Judging panel convener and organizer for three annual awards
- Allocate \$150K in research awards based on scientific merit primarily to graduate students
- Generate instructions and rubrics to improve chance from applicants from diverse backgrounds
- Coordinate and conduct 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
- 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 International and Public Affairs	Certificate (Oct) 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)

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)
2019–2023	RGP0013/2019: "Regrowing the brain: evolution and mechanisms of seasonal reversible size
	changes in a mammal" co-PI, Human Frontiers of Science Program, \$327,261 to SBU,
	\$1,050,000 total. (4%)

# Honors and Awards (Last 10 years)

2022	Award for Excellence in Assessment, Stony Brook University Center for Excellence in Learning	g
and Teaching Celebration of Teaching Awards		_

- 2021 Scott A. Margolin '99 Lecture in Environmental Affairs, 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
- 2013 Kavli Frontiers of Science Symposium Fellow
- 2012–2013 National Academy of Sciences Education Fellow in the Life Sciences

## **Publications**



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

H-index: 37, i10-index: 83, total cites: 6,619 Most cited paper: Thompson et al. 2017 (1534)

Most cited lead author paper: Reddy and Dávalos 2003 (458)

# Peer-reviewed journal articles (93 published, 5 in process; SBU †undergraduate, ‡graduate, \$\phi\$postdoctoral trainee; non SBU \*mentee)

To be re-	Paulat, N.S., J.M Storer, <b>D.D. Moreno-Santillán°</b> , A.B. Osmanski, K. Sullivan, J.R Grimshaw, J.
submitted	Korstian, M. Halsey, C.J Garcia, C. Crookshanks, J. Roberts, A.F.A. Smit, R. Hubley, J. Rosen,
	E.C. Teeling, S.C. Vernes, E. Myers, Zoonomia Consortium, D. Rojas, L.M. Dávalos, D.A. Ray.
	Chiropterans are a hotspot for horizontal transfer of DNA transposons in Mammalia.
Submitted	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.
In 2 <sup>nd</sup>	Barreto, E., M. Lim‡, D. Rojas, L.M. Dávalos, A. Machac, C. Graham. Not all traits influence
Revision	hummingbird diversification, but their evolutionary rates do. Proceedings of the Royal Society B:
	Biological Sciences.
In 2 <sup>nd</sup>	Mutumi, G.L.°, R.P. Hall, B.P. Hedrick, L.R. Yohe, A. Sadier, K.T.J. Davies, S.J. Rossiter, K.E.
Revision	Sears, L.M. Dávalos, E.R. Dumont. Disentangling biomechanical and sensory modules in a

hyper-diverse radiation. American Naturalist.

Accepted Osmanski, A.B., N.S. Paulat, J. Korstian, J.R. Grimshaw, M. Halsey, K.A.M. Sullivan, **D.D. Moreno-Santillán°**, 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*.

- Balk, M., J. Deck, K.F. Emery, R.L Walls, D. Reuter, R. LaFrance, J. Arroyo-Cabrales, P. Barret, J. Blois, A. Boileau, L. Brenskelle, N.R. Cannarozzi, J.A. Cruz, **L.M. Dávalos**, M. Hantak, S. Hopkins, B. Kohli, J.N. King, M. Koo, M. Lawing, H. Machado, S.S. McCrane, B. McLean, M. Morgan, S. Pilaar-Birch, D. Reed, E.J. Reitz, N. de la Sancha, N. Sewnath, N.S. Upham, A. Villaseñor, **L. Yohe**, R.P Guralnick, E.B. Davis. Best practices for aggregating and reporting individual traits. *iScience*.
- Yohe, L.R.◊, M. Fabbri, D. Lee, K. Davies, T.P. Yohe, M. K. R. Sanchez, E. Rengifo, R. Hall, G. Mutumi, B.P. Hedrick, A. Sadier, N.B. Simmons, K.E. Sears, E. Dumont, S. Rossiter, B.-A. Bhullar\*, and L.M. Dávalos\*. 2021. Ecological Constraints on Highly Evolvable Olfactory Receptor Genes and Morphology. *Evolution*. DOI: 10.1111/evo.14591 \*Join senior authors.
- 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
- Doronina, L\*, G.M. Hughes\*, D. Moreno-Santillan, C. Lawless, T. Lonergan, L. Ryan, D. Jebb, B.M. Kirilenko, J.M. Korstian, **L.M. Dávalos**, S. C. Vernes, E.W. Myers, E.C. Teeling, M. Hiller, L.S. Jermin, J. Schmitz, M.S. Springer, D.A. Ray\*. Contradictory phylogenetic signals in the Laurasiatheria anomaly zone. *Genes* **13**. DOI: 10.3390/genes13050766 \*Equal contribution.
- 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*. DOI: 10.1086/720154
- 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
- Potter, J.H.T.°\*, R. Drinkwater, K.T J. Davies°, M.C.W. Lim‡, L.R. Yohe◊, 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.
- Armenteras-Pascual, D., **L.M. Dávalos**, J.S. Barreto, A. Miranda, A. Hernández-Moreno, C. Zamorano-Elgueta, T. M. González-Delgado, M. C. Meza, Javier Retana-Alumbreros. Fire-induced loss of the world's most biodiverse forests in Latin America. *Science Advances* **7**(33), eabd3357. DOI: 10.1126/sciadv.abd3357
- 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

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  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
- Murillo-Sandoval, P.°, E. Gjerdseth, C. Correa-Ayram, D. Wrathall, J. Van Den Hoek, L. M. Dávalos, R. Kennedy. No peace for the forest: Rapid, widespread land changes in the Andes-Amazon region following the Colombian civil war. *Global Environmental Change* **69**: 102283. DOI: 10.1016/j.gloenvcha.2021.102283
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- Dávalos, E., L.M. Dávalos. Social Investment Deters Smallholder Coca Cultivation. *Journal of 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
- Davies, K.\*\*, L. Yohe◊, J. Almonte, M. Sánchez, E. Rengifo, E. Dumont, K. Sears, L.M. Dávalos\*, S. Rossiter\*. Foraging shifts and visual preadaptation in ecologically diverse bats. *Molecular Ecology* 29: 1839–1859. \*Corresponding authors. DOI: 10.1111/mec.15445
- Yohe, L.⋄, K.T.J. Davies°, N.B. Simmons, K.E. Sears, E.R. Dumont, S.J. Rossiter, L.M. Dávalos. Evaluating the performance of targeted sequence capture, RNA-Seq, and degenerate-primer PCR cloning for sequencing the largest mammalian multigene family. *Molecular Ecology Resources* 20(1): 140-153. DOI: 10.1111/1755-0998.13093
- 2020 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* **27**: 563–575. DOI: 10.1007/s10914-019-09472-x

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- Yohe, L.◊, K.T.J. Davies°, S.J. Rossiter, L.M. Dávalos. Expressed *vomeronasal type-1 receptors* (*V1rs*) in bats uncover conserved sequences underlying social chemical signaling. *Genome Biology and Evolution* 11(10): 2741-2749. DOI: 10.1093/gbe/evz179
- 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
- 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
- Armenteras, D., L. Schneider, **L.M. Dávalos**. Fires in Protected Areas Reveal Unforeseen Costs of Colombian Peace. *Nature Ecology and Evolution* **3**: 20-23. DOI: 10.1038/s41559-018-0727-8
- 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. \*Corresponding authors. DOI: 10.7554/eLife.37412
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- 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. DOI: 10.1177/1866802X1801000204
- 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).

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- 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
- 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
- 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
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- 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
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Gonzalez, A., Song, S.J., Kosciolek, 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.

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# Invited Talks (Last 3 years)

- 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.
  - 2022
  - 20 July, **Dávalos, L.M.** Conservation is the work of multitudes: New Literacies for Changing World.
    - 2022 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 Latinamerica 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, Orígenes de la Cocaína 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
  - 2021 <u>Anthropocene</u>. 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 2021 Teams.
  - 23 June, Dávalos, L.M. & L.R. Yohe. Protocols for maximizing future use of bat tissues. Bats without
    - 2021 Borders Webinar. Via Zoom.
  - 21 June, Dávalos, L.M. Diversity in the Skies: Molecular Ecology of #BatSenses. 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>. Scott A. Margolin '99 Lecture in Environmental Affairs, 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. 2021
  - 2021
- 12 **Dávalos, L.M.** Some of what I learnt from collecting "big data" from decidedly non-model organisms. IACS Seminar. Via Zoom.
  - 2020
- 29 October Dávalos, L.M. Más Preguntas que Respuestas en la Genómica Sensorial de Murciélagos.
  - 2020 Seminario Virtual de Ciencias Biológicas. Via Youtube.
- 28 October Dávalos, L.M. Integrative Biodiversity Science for a Global Future. Wyss Symposium on
  - 2020 Integrative Biodiversity Conservation Science. Via Zoom.
- 14 October Dávalos, L.M. Webinar: Economías Ilícitas y Medio Ambiente. Centro de Estudios sobre
  - 2020 Seguridad y Drogas. Via WebEx.

9 October, Dávalos, L.M. & Olival, K. *Emerging diseases, biodiversity, and human wellbeing: links and opportunities*. Mack Lipkin Man and Nature Series Panel Discussion. Via Facebook Live.

9 August Dávalos, L.M. & A.P. Corthals. COVID-19 in context. Indian Scientists' Response to COVID-

**2020** 19. Via Zoom.

31 July 2020 Dávalos, L.M, A. Hart, T. Kingston, A. Morss. <u>Bats in the Media Webinar</u> moderated by Dan Riskin. Via Zoom.

29 July 2020 Dávalos, L.M. <u>Building an inclusive bioethics for field work in the 21<sup>st</sup> century</u>. <u>Gender and diversity in STEMM: building an inclusive community</u>. I Virtual Meeting of Systematics, Biogeography and Evolution (SBE). Via Zoom.

13 June Dávalos, L.M. <u>Muerte y Vida de la biodiversidad: el caso de las Antillas</u>. Semana de los

2020 Murciélagos. Via Zoom.

2 June 2020 **Dávalos, L.M**. *Más Preguntas que Respuestas en la genómica sensorial de murciélagos*. Programa de Conservación de Murciélagos de Perú. Via Zoom.

29 August Dávalos, L.M. & the Bat1K Team. The Genomics of Why There are So Many Species of Bats.

2019 Genome 10K Annual Meeting. Rockefeller University, New York, New York.

6 August Dávalos, L.M. <u>Deforestación, Desarrollo y Política Pública</u>. Seminario: ¿El Medio Ambiente

2019 Como Víctima de la Paz? Deforestación y Conservación De Biodiversidad. Universidad de Los Andes, Bogotá, Colombia.

# Conference Presentations (Last 3 years)

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 2.

29 May Dávalos, L.M. What Makes Phyllostomid Bats A Unique Mammalian Radiation. World Bat

2020 Twitter Conference 1.

26 October Dávalos, L.M., L.R. Yohe, P. Pulido–Santacruz, M. González, A. McPherran, J.A. Soto–
 2019 Centeno, D.M. Morales Martinez, A.J. Lozano Florez, J. Flanders, D. Rojas, W. Frick, & A.P. Corthals. Labs without Borders: Methods for Extracting, Amplifying, and Sequencing in the Field. 49th Annual North American Symposium on Bat Research, 23–26 October 2019

Kalamazoo, Michigan.

# **University Teaching**

Undergraduate courses taught at SUNY Stony Brook

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

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

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

Undergraduate Research Supervising (molecular and bioinformatics lab) and Mentoring

Spring 2020–present 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

Summer 2019-Spring

2020

Clara Tucker

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

2016 Bartasunaite (John Jay College), Bhavana Patil (SBU)

Spring 2013 Rachel Lohrdal (Anthropology program)

Fall 2012–Spring 2013
Fall 2012–Spring 2013
Summer 2010–Fall 2010
Spring 2010
Spring 2010
Fall 2009–Spring 2011
Fall 2009–Spring 2010

Yesha Shah
Donald J. Pantino
Melissa Zheng
Alexander Lucaci
Tiffany Wang
Anne Szeto
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 3X 3-hr-session

workshop

Taller de Escritura Científica en Ecología y Biología Evolutiva (Ecology and 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

phylogenetics

Intensive 3X 8-hr day

workshop

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 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 (currently 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 Spring 2021

Joined lab Spring 2021

Joined PhD Fall 2019

Joined PhD Fall 2018

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)

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 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 E&E MA dropout Spring Shaelyn Bishop, SBU-Ecology and Evolution

2014

Samantha DelSerra, SBU-Ecology and Evolution E&E MA, Spring 2014 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 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

Kate Blackwell (SBU-E&E), David Carlson (SBU-E&E, graduated Spring 2022), Dissertation committees

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 Spring 2017), Anusha Shankar (SBU-E&E, graduated Fall 2019), Mihir Umarani

(SBU-E&E), David Vanier (IDPAS), Imogene Welles (SBU-E&E), Nicolas

Wiggenhauser (SBU-IDPAS), Megan Wyatt (SBU-E&E)

Postdoctoral supervising (where they are now)

Fall 2020-present Dr. Tanya Lama (NSF postdoctoral fellow)

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 (Assistant Professor at Universidad Javeriana, Cali, Colombia) Fall 2013-Summer 2015 Dr. Marianne S. Moore (Assistant Professor at Arizona State University, Mesa)

Lab rotation

Fall 2009 Emmanuel Asare (Genetics program)

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

Fall 2021–present Lead, awards and advancement committee
Fall 2021–present 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 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 2008–2010 Member Steering Committee, SBU–BNL Center for Impacts of Regional Climate

Change

# University Service

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

Spring 2022–present Member, REACH Visioning Committee

https://www.youtube.com/watch?v=6nmMv8s787M

Fall 2020–present
Fall 2019–present
Spring 2022

https://www.youtube.com/watch?v=6nmMv8s787M

Marine Conservation and Policy committee, SOMAS

Advisory Board for Institute for Global Studies

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

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. 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

Spring 2013

Summer 2014 Mentoring research of Alessondra Bruno, Courtney Cheng, Samantha DeRosa, Cameron Morales, and Yasin Perez, Long Island High School students Mentoring research of volunteer and SBU UG graduate Brandon Baird Fall 2012-Spring 2013 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 Science and Forestry), Long Island High School student, semifinalist at the Long 2010 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)

# Past Experience

Fall 2008-Fall 2009

2015–2016 United Nations Office on Drug and Crime

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

Mentoring research of volunteer and SBU UG graduate Elizabeth Simola

- 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 Columbia University and American Museum of Natural History, New York. USA

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 Biotechnology Research Unit, Centro Internacional de Agricultura Tropical (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 <u>Universidad del Valle, Cali, Colombia</u>

## **Teaching Assistant**

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

# Languages

2020

First language: SpanishMost fluent: English

• Working knowledge: Portuguese, French

# Media Mentions and Appearances (original reporting only)

2022 Wu, K. Hibernation: The Extreme Lifestyle That Can Stop Aging The Atlantic 9 August https://www.theatlantic.com/science/archive/2022/08/bats-hibernation-anti-aging/671083/ 2022 Mowbray, S. All coked up: The global environmental impacts of cocaine Mongabay 4 April https://news.mongabay.com/2022/04/all-coked-up-the-global-environmental-impacts-of-cocaine/ 2022 Cornwall, W. How a disappearing ear bone turned bats into masters of echolocation. Science 26 January https://tinyurl.com/bdct29d9 2022 Mouterde, P. Pour protéger la biodiversité, des scientifiques appellent à des changements majeurs. Le Monde 19 January https://tinyurl.com/yckh2v7n 2022 Anonymous. Biodiversity faces its make-or-break year, and research will be key. Nature 19 January https://www.nature.com/articles/d41586-022-00110-w 2021 Bustamante Hernández, N. To change policies, insert yourself in them': Q&A with biologist Liliana Dávalos. Mongabay 29 October https://news.mongabay.com/2021/10/to-change-policies-insertyourself-in-them-ga-with-biologist-liliana-davalos/ 2021 Hittier, R. Bat Superpowers. PBS NOVA 15 September https://www.pbs.org/video/bat-superpowers-2021 Hayden, E.K. Could editing the genomes of bats prevent future coronavirus pandemics? Two scientists think it's worth a try. STAT News 1 July https://tinyurl.com/e6zrvbuk 2021 Sanford, K. Episode 829 - Why Are Bats Disease Vectors? This Week in Science (podcast) 16 June https://www.twis.org/16-june-2021-episode-829-why-are-bats-disease-vectors/ 2020 Cummins, E. Bats, museums, and viruses collide: a scientific love story. *National Geographic* 4 December https://www.nationalgeographic.com/science/2020/12/bat-scientist-and-forensicpathologist-team-up-on-covid-19-science/ 2020 Burby, L.N. A Faculty Perspective on How 2020 Will Change Us. Stony Brook University Magazine Fall https://www.stonybrook.edu/magazine/2020-fall/a-faculty-perspective-on-how-2020-will-2020 Calle, M. C. ¿Cambia el escenario ambiental en Latinoamérica con la llegada de Joe Biden a la presidencia de Estados Unidos? Mongabay LatAm 18 November https://es.mongabay.com/2020/11/joe-biden-medio-ambiente-y-cambio-climatico-latinoamerica/ 2020 Calle, H & M. M. Monsalve. ¿Comer menos carne para evitar una crisis ambiental? Esto dice la ciencia. El Espectador 12 November https://www.elespectador.com/noticias/medio-ambiente/diasin-carne-si-funciona-contra-el-cambio-climatico-esto-dice-la-ciencia/

Wilcox, C. Out of the Darkness. Bats 39(3): 14-17 https://www.batcon.org/article/out-of-the-

- darkness/
- Montanari, S. Gene Genius: Researcher and BCl science advisory committee member unveils new knowledge about bat genomes. *Bats* 39(3):24 https://www.batcon.org/article/gene-genius/
- Barham, E. Colombia's lawmakers are debating how to regulate cocaine. Here's what we know about decriminalization. *Washington Post* 19 October https://www.washingtonpost.com/politics/2020/10/19/colombias-lawmakers-are-debating-how-regulate-cocaine-heres-what-we-know-about-decriminalization/
- Calle, H. (Infoamazonia). La Amazonia que queremos necesita a la ciencia. *El Espectador* 10 August https://www.elespectador.com/noticias/medio-ambiente/la-amazonia-que-queremos-necesita-a-la-ciencia/
- Anonymous. Comment les chauves-souris survivent-elles à des virus mortels? *Radio-Canada* 25 July <a href="https://ici.radio-canada.ca/nouvelle/1721849/chiropteres-genome-six-especes-consortium-bat1k">https://ici.radio-canada.ca/nouvelle/1721849/chiropteres-genome-six-especes-consortium-bat1k</a>
- 2020 Koumoundouros, T. Bats Can Survive Carrying Deadly Viruses, And We're Starting to Figure Out How. *Sciencealert* 25 July https://www.sciencealert.com/bat-genomes-may-hold-clues-to-their-deadly-virus-resisting-superpowers
- Giardina, V. The Week That Wasn't in COVID-19: Bat Study, Handwashing Apps, No Immunity? *Medscape* 26 June https://www.medscape.com/viewarticle/933044
- Ebrahim, Z. Bats are immune to coronaviruses, so scientists are looking at what we can learn from them. *health24* 24 June https://tinyurl.com/yccucyuv
- Anonymous. Holy goblet cells! Scientists studying bat-immunity. *InnovateLI* 18 June https://www.innovateli.com/innovation-in-the-age-of-coronavirus/
- Hertzberg, N. Les secrets de la chauve-souris, «souche a virus» au système immunitaire d'exception. *Le Monde* 13 April https://tinyurl.com/yd843xwy
- 2020 InfoAmazonia. Tres claves para saber qué pasó con los incendios de La Macarena. *El Espectador* 24 February https://www.elespectador.com/ambiente/tres-claves-para-saber-que-paso-con-los-incendios-de-la-macarena-article-906168/
- 2019 Morales, L. La carretera es un boquete para explotar de manera desaforada el Amazonas. *El Espectador* 17 October <a href="https://tinyurl.com/y43sjwq5">https://tinyurl.com/y43sjwq5</a>
- 2019 InfoAmazonia. La pregunta de un niño sobre la Amazonia que Duque respondió mal. *El Espectador* 24 September https://www.elespectador.com/noticias/medio-ambiente/la-pregunta-de-un-nino-sobre-la-amazonia-que-duque-respondio-mal/
- Paz, A. Estudio concluye que deforestación aumenta a medida que se intensifica el conflicto armado en Colombia. *Mongabay LatAm* 3 September https://es.mongabay.com/2019/09/conflicto-armado-y-coca-incrementan-deforestacion-en-colombia/
- 2019 Lancaster, W. Speciation and Divergent Behaviour in Caribbean Populations of the Greater Mustached Bat. *Nature Ecology and Evolution Behind the Paper* 31 August https://tinyurl.com/y67huwlv
- 2019 Romero, S. Where is the Amazon Rainforest Vanishing? Not Just in Brazil. *New York Times* 30 August https://www.nytimes.com/2019/08/30/world/americas/amazon-rainforest.html
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# Professional Service

2021-present	Editor in Chief, Quarterly Review of Biology
2020-present	Awards Director, Society for Systematic Biology
2019-present	Bat Conservation International (BCI) Science Advisory Board member
2019-present	Associate Editor, Systematic Biology
Fall 2021	Contributor, Connecting the dots between ambitious outcomes for biodiversity and the

actions required to achieve them, Expert Input to the Post-2020 Global Biodiversity

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 17<sup>th</sup>

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

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, Molecular Phylogenetics and Evolution

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, MicrobiologyOpen,

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*, *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 15<sup>th</sup> International Bat

Research Congress (Prague, Czech Republic)

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