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Liliana M. Dávalos

Recent Experience

Fall 2008–present	<u>Stony Brook University, USA</u> Assistant Professor (2008–2014), Associate Professor (2014–2018), Full Professor (2018–present): Department of Ecology and Evolution, Consortium for Inter-Disciplinary Environmental Research <ul style="list-style-type: none">• 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 multi-team projects
2020–present	<u>Society for Systematic Biologists</u> Awards Director <ul style="list-style-type: none">• 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	<u>United Nations Office on Drug and Crime</u> Consultant for the United Nations 2022 World Drug Report thematic chapter <ul style="list-style-type: none">• Study designer and data analyst• Analyzed literature on main deforestation drivers• Designed, interpreted, and visualized Bayesian geostatistical models• Coordinated and wrote the report
2007–present	<u>American Museum of Natural History, New York, USA</u> 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

Current December 07, 2022

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	“Collaborative Research: Evolution of regulatory diversity via transposable element (TE) activity” PI, National Science Foundation, \$380,500 to SBU, \$1,849,723 total.
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 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: 38, i10-index: 86, total cites: 6,911
Most cited paper: Thompson et al. 2017 (1621)
Most cited lead author paper: Reddy and Dávalos 2003 (464)

Peer-reviewed journal articles (95 published, 5 in process; SBU †undergraduate, ‡graduate, ◊postdoctoral trainee; °non SBU mentee)

Submitted	Paulat, N.S., J.M Storer, D.D. Moreno-Santillán °, A.B. Osmanski, K. Sullivan, J.R Grimshaw, J. 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. <i>Molecular Biology and Evolution</i> .
In 2 nd Revision	Barreto, E., M. Lim ‡, D. Rojas, L.M. Dávalos , A. Machac, C. Graham. Not all traits influence hummingbird diversification, but their evolutionary rates do. <i>Proceedings of the Royal Society B: Biological Sciences</i> .
In 2 nd Revision	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 biomechanical and sensory modules in a

- hyper-diverse radiation. *American Naturalist*.
- Accepted 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*.
- 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*.
- 2022 Leadley, P., D. Obura, E. Archer, M.J. Costello, **L.M. Dávalos**, F. Essl, A. Hansen, S. Hashimoto, D. Leclère, A.S. Mori, E. Nicholson, A. Purvis, C. Rondinini, L. Shannon, X. Shen, E. Turak, P.H. Verburg, P. Visconti. Actions needed to achieve ambitious objectives of net gains in natural ecosystem areas by 2030 and beyond. *PLOS Sustainability and Transformation* **1**(12): e0000040. DOI: 10.1371/journal.pstr.0000040
- 2022 Leadley, P., E. Archer, B. Bendandi, J. Cavender-Bares, **L.M. Dávalos**, F. DeClerck, G. Gann, E. Gonzales, S. Hashimoto, C. Krug, J.P. Metzger, E. Nicholson, Ü. Niinemets, D. Obura, B. Strassburg, B. Tansey, P. Verburg, A. Vidal, J. Watson, S. Woodley, M. Yasuhara. Setting ambitious international restoration objectives for terrestrial ecosystems for 2030 and beyond. *PLOS Sustainability and Transformation* **1**(12): e0000039. DOI: 10.1371/journal.pstr.0000039
- 2022 Balk, M., J. Deck, K.F. Emery, R.L Walls, D. Reuter, R. LaFrance, J. Arroyo-Cabral, 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. A solution to the challenges of interdisciplinary aggregation and use of specimen-level trait data. *iScience* **25**, 105101. DOI: 10.1016/j.isci.2022.105101
- 2022 **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***. Ecological Constraints on Highly Evolvable Olfactory Receptor Genes and Morphology. *Evolution*. DOI: 10.1111/evo.14591 *Joint senior authors.
- 2022 Leadley, P., D. Obura, L. Shannon, M. Cecilia, K. Millette, A. Rankovic, E. Archer, F. Ato, N. Bax, A. Kutchi, 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
- 2022 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.
- 2022 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
- 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
- 2021 **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.^o, R. Drinkwater, K.T.J. Davies^o, **M.C.W. Lim†**, **L.R. Yohe**^o, 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.
- 2021 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
- 2021 Santana, S.E.*^o, Z.A. Kaliszewska^o, L.B. Leiser-Miller^o, **M.E. Lauterbur**^o, 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.
- 2021 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
- 2021 **Yohe, L.R.**^o, 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/g3journal/jkab260
- 2021 **Moreno Santillan, D.**^o, **T. Lama**^o, Y.G. Guerrero, **A. Brown†**, **P. Donat†**, H. Zhao, S. Rossiter, **L.R. Yohe**^o, 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.
- 2021 Hall, R.P.^o, G. Mutumi^o, B.P. Hedrick, **L.R. Yohe**^o, A. Sadier^o, K.T.J. Davies^o, 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
- 2021 Murillo-Sandoval, P.^o, 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
- 2021 Turvey, S.T.*^o, C. Duncan, N.S. Upham, X. Harrison, **L.M. Dávalos***. Where the wild things were: intrinsic and extrinsic extinction predictors in the world's most depleted mammal fauna. *Proceedings of the Royal Society B: Biological Sciences* **288**: 20202905. DOI: 10.1098/rspb.2020.2905 *Corresponding authors.
- 2021 **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*. DOI: 10.1093/jhered/esab008
- 2021 Potter, J.H.T.^o, K.T.J. Davies^o, **L.R. Yohe**^o, K. Warren, G. Tsagkogeorga, B.K. Lim, M. dos Reis, **L.M. Dávalos**, S.J. Rossiter*. Dietary diversification and specialisation in neotropical bats facilitated by early molecular evolution. *Molecular Biology and Evolution* **38**(9):3864–3883. DOI: 10.1093/molbev/msab028
- 2020 Jebb, D., Z. Huang, M. Pippel, G.M. Hughes, K. Lavrichenko, P. Devanna, S. Winkler, L. S. Jermin, E.C. Skirmuntt, A. Katzourakis, L. Burkitt-Gray, D.A. Ray, K.A.M. Sullivan, **L.M. Dávalos**, Angelique P. Corthals, M.L. Power, G. Jones, R.D. Ransome, D. Dechmann, A.G. Locatelli, S.J. Puechmaille, O. Fedrigo, E.D. Jarvis, Mark S. Springer, M. Hiller, S.C. Vernes, E.W. Myers, E. C. Teeling. Six new reference quality bat genomes illuminate the molecular basis and evolution of bat adaptations. *Nature* **583**: 578–584. DOI: 10.1038/s41586-020-2486-3
- 2020 Wang, K., S. Tian, J. Galindo-González, **L.M. Dávalos**, Y. Zhang, H. Zhao. Molecular adaptation and convergent evolution of frugivory in Old World and neotropical fruit bats. *Molecular Ecology*

- 29(22): 4366-4381. DOI: 10.1111/mec.15542
- 2020 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
- 2020 **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
- 2020 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
- 2020 **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
- 2019 **Yohe, L.**[‡], P. Devanna^{*}, K.T.J. Davies, J.H.T. Potter, S.J. Rossiter, E.C. Teeling, S. Vernes[#], **L.M. Dávalos**[#]. Best practices for tissue collection of bats for -omics analyses and primary cell culture. *Journal of Visualized Experiments* Oct 23;(152). *Equal contribution, #co-corresponding authors. DOI: 10.3791/59505
- 2019 **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
- 2019 **Lim, M.**[‡], C. Witt, C. Graham, **L.M. Dávalos**. Parallel molecular evolution in pathways, genes, and sites in high-elevation hummingbirds revealed by comparative transcriptomics. *Genome Biology and Evolution* **11**(6): 1552-1572. DOI: 10.1093/gbe/evz101
- 2019 **Dávalos, L.M.**^{*}, W.C. Lancaster, M.S. Núñez-Novas[°], Y.M. León, B. Lei[°], J. Flanders, A.L. Russell^{*}. A coalescent-based estimator of genetic drift, and acoustic divergence in the *Pteronotus parnellii* species complex. *Heredity* **122**(4): 417-427. *Equal contribution. DOI: 10.1038/s41437-018-0129-3
- 2019 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
- 2018 Sadier, A.[°], K.T.J. Davies[°], **L. Yohe**[‡], K. Yun, **P. Donat**[‡], B.P. Hedrick[°], E.R. Dumont, **L.M. Dávalos**^{*}, S.J. Rossiter^{*}, K.E. Sears^{*}. Evidence for multifactorial processes underlying phenotypic variation in bat visual opsins. *eLife* **2018**;7: e37412. *Corresponding authors. DOI: 10.7554/eLife.37412
- 2018 Rojas, D.[‡], M. Moreira, M.J. Ramos Pereira, C. Fonseca, **L.M. Dávalos**. Updated distribution maps for neotropical bats in the superfamily Noctilionoidea. *Ecology* **99**(9): 2131. DOI: 10.1002/ecy.2404 (Data Paper)
- 2018 Dávalos, E., L. Morales, J. Holmes^{*}, **L.M. Dávalos**. Opposition Support and the Experience of Violence Explain the Colombian Peace Referendum. *Journal of Politics in Latin America* **10**(2): 99-122. *Corresponding author. DOI: 10.1177/1866802X1801000204
- 2018 Hedrick, B.P.[°], **L. Yohe**[‡], A. Vander Linden, **L. M. Dávalos**, K. Sears, A. Sadier[°], S.J. Rossiter, K.T.J. Davies[°], E. Dumont. Assessing Soft-Tissue Shrinkage Estimates in Museum Specimens Imaged With Diffusible Iodine-based Contrast-Enhanced Computed Tomography (diceCT). *Microscopy and Microanalysis* **24**(3): 284-291. DOI: 10.1017/S1431927618000399
- 2018 **Yohe, L.**[‡], **L.M. Dávalos**. Genetic function of *Trpc2* predicts accessory olfactory bulb form in bat vomeronasal evolution. *Biological Journal of the Linnean Society* **123**(4): 796-804. DOI: 10.1093/biolinnean/bly015
- 2018 Holmes, J.S., A. Palao Mendizabal[°], D. Saucedo De La Fuente, K. Mets[‡], A. Cárdenas, D. Armenteras, **L.M. Dávalos**. Identifying municipal risk factors for leftist guerrilla violence in Colombia. *Peace Economics, Peace Science and Public Policy* **24**(2): 23-51. DOI:

- 10.1515/peps-2017-0009
- 2018 Tavares, V.d.C.* , **O.M. Warsi**‡, F. Balseiro, C. Mancina, **L.M. Dávalos***. Out of the Antilles: Fossil Phylogenies Support Reverse Colonization of Bats to South America. *Journal of Biogeography* 45(4): 859-873. *Equal contribution. DOI: 10.1111/jbi.13175
- 2018 Rojas, D.◊*, M.J. Ramos Pereira, C. Fonseca, **L.M. Dávalos***. Eating down the food chain: generalism is not an evolutionary dead end for herbivores. *Ecology Letters* 21(3): 402-410. *Corresponding authors. DOI: 10.1111/ele.12911 **Corrigendum**: DOI: 10.1111/ele.12968
- 2018 Teeling, E., S. Vernes, **L.M. Dávalos**, D.A. Ray, M.T. Gilbert, E. Myers, and the Bat1K Consortium. Bat Biology, Genomes, and the Bat1K Project: to generate chromosome-level genomes for all living bat species. *Annual Review of Animal Biosciences* 6, 23-46. DOI: 10.1146/annurev-animal-022516- 022811
- 2017 Thompson, L.R., Sanders, J.G., McDonald, D., Amir, A., Ladau, J., Locey, K.J., Prill, R.J., Tripathi, A., Gibbons, S.M., Ackermann, G., Navas-Molina, J.A., Kopylova, E., Vázquez-Baeza, Y., Janssen, S., Morton, J.T., Mirarab, S., Xu, Z.Z., Haroon, M.F., Kanbar, J., Zhu, Q., Gonzalez, A., Song, S.J., Kosciulek, T., Bokulich, N.A., Lefler, J., Brislawn, C.J., Humphrey, G.C., Owens, S.M., Hampton-Marcell, J., Berg-Lyons, D., McKenzie, V., Fierer, N., Fuhrman, J.A., Clauser, A., Stevens, R.L., Shade, A., Pollard, K.S., Goodwin, K.D., Jansson, J.K., Gilbert, J.A., Knight, R., The Earth Microbiome Project Consortium*. A communal catalogue reveals Earth's multiscale microbial diversity. *Nature* 551, 457-463. DOI: 10.1038/nature24621 * As part of this massive consortium.
- 2017 **Mets, K.D.**‡, D. Armenteras, **L.M. Dávalos**. Spatial autocorrelation reduces model precision and predictive power in deforestation analyses. *Ecosphere* 8(5), e01824. DOI: 10.1002/ecs2.1824
- 2017 Armenteras, D., C. Gibbes, J. Anaya, **L.M. Dávalos**. Integrating remotely sensed fires for predicting deforestation for REDD+. *Ecological Applications* 27(4), 1294-1304. DOI: 10.1002/eap.1522
- 2017 **Yohe, L.R.**‡, **R. Abubakar**‡, **C. Giordano**‡, E. Dumont, K. Sears, S. Rossiter, **L.M. Dávalos**. *Trpc2* pseudogenization dynamics in bats reveal ancestral vomeronasal signaling, then pervasive loss. *Evolution* 71(4), 923-935. DOI: 10.1111/evo.13187
- 2017 Valente, L., R. Etienne, **L.M. Dávalos***. Recent extinctions disturb path to equilibrium diversity in the Caribbean. *Nature Ecology and Evolution* 1, 0026. *Corresponding author. DOI: 10.1038/s41559-016-0026
- 2016 **Dávalos, L.M., K.M. Sanchez**°, D. Armenteras. Deforestation and Coca Cultivation Rooted in 20th-Century Development Projects. *Bioscience* 66(11), 974-982. DOI: 10.1093/biosci/biw118
- 2016 Nuñez-Novas, M.S.°, Y.M. León, J. Mateo, **L.M. Dávalos**. Records of the cave-dwelling bats (Mammalia: Chiroptera) of Hispaniola with an examination of seasonal variation in diversity. *Acta Chiropterologica* 18(1), 269-278. DOI: 10.3161/15081109ACC2016.18.1.016
- 2016 **Herrera, J.**‡, **L.M. Dávalos**. Phylogeny and divergence times of lemurs inferred with recent and ancient fossils in the tree. *Systematic Biology* 65(5), 772-791. DOI: 10.1093/sysbio/syw035
- 2016 **Rojas, D.**◊, **O.M. Warsi**‡, **L.M. Dávalos**. Bats (Chiroptera: Noctilionoidea) challenge recent origin of extant neotropical diversity. *Systematic Biology* 65(3), 432-448. DOI: 10.1093/sysbio/syw011 **Erratum**: DOI: 10.1093/sysbio/syw118
- 2015 **Yohe, L.R.**‡, P.M. Velazco°, D. Rojas◊, B.E. Gerstner‡, N.B. Simmons, **L.M. Dávalos**. Bayesian hierarchical models suggest oldest known plant-visiting bat was omnivorous. *Biology Letters* 11(11), 1-5. DOI: 10.1098/rsbl.2015.0501
- 2015 Chadid, M.A.°, **L.M. Dávalos**, J. Molina, D. Armenteras. A Bayesian Spatial Model Highlights Distinct Dynamics in Deforestation from Coca and Pastures in an Andean Biodiversity Hotspot. *Forests* 2015(6), 3828-3846. DOI: 10.3390/f6113828
- 2015 **Dahan, R.A.***‡, R.P. Duncan°, A.C.C. Wilson, **L.M. Dávalos***. Expansion of amino acid transporters is associated with the evolution of obligate endosymbiosis in sap-feeding insects (Hemiptera: Sternorrhyncha). *BMC Evolutionary Biology* 15, 52. *Corresponding authors. DOI: 10.1186/s12862-015-0315-3
- 2015 Corthals, A.P., A. Martin°, **O.M. Warsi**‡, M. Woller-Skar, W. Lancaster, A. Russell, **L.M. Dávalos**. From the field to the lab: Best practices for field Preservation of Bat Specimens for Molecular

- Analyses. *PLoS One* 10(3), e0118994. DOI: 10.1371/journal.pone.0118994
- 2014 Núñez-Novas, M.S.[°], Y.M. León, J. Mateo, and **L.M. Dávalos**. 2014. Horas de éxodo y estacionalidad en los murciélagos en cuatro cuevas de la República Dominicana. *Novitates Caribaea* 2014(7), 83-94.
- 2014 **Dávalos, L.M.***, A.L. Russell*. Sex-biased dispersal produces high error rates in mitochondrial distance-based and tree-based species delimitation. *Journal of Mammalogy* 95(4), 781-791. *Equal contribution. DOI: 10.1644/14-MAMM-A-107
- 2014 Davies, K.T.J.[°], G. Tsagkogeorga, N.C. Bennett, **L.M. Dávalos**, C.G. Faulkes, S.J. Rossiter. Molecular evolution of growth hormone and insulin-like growth factor 1 receptors in long-lived, small-bodied mammals. *Gene* 549(2014), 228-236. DOI: 10.1016/j.gene.2014.07.061
- 2014 **Dávalos, L.M.**, P. Velazco[°], **O. Warsi†**, P. Smits[°], N.B. Simmons. Integrating Incomplete Fossils by Isolating Conflicting Signal in Saturated and Non-Independent Morphological Characters. *Systematic Biology* 63(4), 582-600. DOI: 10.1093/sysbio/syu022
- 2014 Dumont, E.R.*[°], K. Samavedam, I. Grosse, **O.M. Warsi†**, **B. Baird†**, **L.M. Dávalos***. Selection for mechanical advantage underlies multiple cranial optima in New World leaf-nosed bats. *Evolution* 68(5), 1436-1449. *Equal contribution. DOI: 10.1111/evo.12358
- 2014 Hayden, S.[°], M. Bekaert, A. Goodbla, W.J. Murphy, **L.M. Dávalos***, E. Teeling*. A Cluster of Olfactory Receptor Genes Linked to Frugivory in Bats. *Molecular Biology and Evolution* 31(4), 917-927. *Equal contribution. DOI: 10.1093/molbev/msu043
- 2014 Duncan, R.[°], F. Husnik, J. Van Leuven, D. Gilbert, **L. Dávalos**, J. McCutcheon, A. Wilson. Dynamic recruitment of amino acid transporters to the insect-symbiont interface. *Molecular Ecology* 23(6), 1608-1623. DOI: 10.1111/mec.12627
- 2014 **Dávalos, L.M.**, J.S. Holmes, N. Rodríguez, D. Armenteras. Demand for beef is unrelated to pasture expansion in northwestern Amazonia. *Biological Conservation* 170(2014), 64-73. DOI: 10.1016/j.biocon.2013.12.018
- 2013 Dawson, M., A. Algar, A. Antonelli, **L.M. Dávalos**, E. Davis, R. Early, A. Guisan, R. Jansson, J. Lessard, K. Marske, J. McGuire, A.L. Stigall, N.G. Swenson, N. Zimmermann, D. Gavin. An horizon scan of biogeography. *Frontiers in Biogeography* 5(2), 130-157.
- 2012 **Dávalos, L.M.**, A.L. Russell. Deglaciation Explains Bat Extinction in the Caribbean. *Ecology and Evolution* 2(12), 1-7. DOI: 10.1002/ece3.399
- 2012 **Dávalos, L.M.***, A.L. Cirranello^{°*}, J.H. Geisler, N.B. Simmons. Understanding phylogenetic incongruence: lessons from Phyllostomid bats. *Biological Reviews* 84(7), 991-1024. *Equal contribution. DOI: 10.1111/j.1469-185X.2012.00240.x
- 2012 Corthals, A., A. Koller, D.W. Martin, R. Rieger, E.I. Chen, M. Bernaski, G. Recagno, **L.M. Dávalos**. Detecting the Immune System Response of a 500 Year-old Inca Mummy. *PLoS One* 7(7), e41244. DOI: 10.1371/journal.pone.0041244
- 2012 Dumont, E.R.*[°], **L.M. Dávalos***, **A. Goldberg†**, S. E. Santana, K. Rex, C.C. Voigt. Morphological innovation, diversification and the invasion of a new adaptive zone. *Proceedings of the Royal Society B: Biological Sciences* 279(1734), 1797-1805. *Equal contribution. DOI: 10.1098/rspb.2011.2005
- 2012 Geeta, R., **L.M. Dávalos**, A. Levy, L. Bohs, M. Lavin, K. Mummenhoff, N. Sinha, M.F. Wojciechowski. Keeping it simple: Flowering plants tend to retain, and revert to, simple leaves. *New Phytologist* 193(2), 481-493. DOI: 10.1111/j.1469-8137.2011.03951.x
- 2011 **Dávalos, L.M.**, A.C. Bejarano, **M.A. Hall°**, H.L. Correa, A.P. Corthals, O.J. Espejo. Forests and drugs: coca-driven deforestation in global biodiversity hotspots. *Environmental Science and Technology* 45(4), 1219-1227. DOI: 10.1021/es102373d
- 2009 **Dávalos, L.M.***, A.C. Bejarano*, H.L. Correa. Disabusing Cocaine: Pervasive Myths and Enduring Realities of a Globalised Commodity. *International Journal of Drug Policy* 20(5), 381-386. *Equal contribution. DOI: 10.1016/j.drugpo.2008.08.007
- 2009 **Dávalos, L.M.***, A.L. Porzecanski*. Accounting for molecular stochasticity in systematic revisions: Species limits and phylogeny of *Paroaria*. *Molecular Phylogenetics and Evolution* 53(1), 234-248. *Equal contribution. DOI: 10.1016/j.ympev.2009.06.003
- 2008 **Dávalos, L.M.**, A. Corthals. A new species of *Lonchophylla* (Chiroptera: Phyllostomidae) from

- the eastern Andes of northwestern South America. *American Museum Novitates* 3635, 1-16. DOI:10.1206/464.1
- 2008 **Dávalos, L.M.**, S.L. Perkins. Saturation and base composition bias explain phylogenomic conflict in *Plasmodium*. *Genomics* 91(5), 433-442. DOI: 10.1016/j.ygeno.2008.01.006
- 2007 **Dávalos, L.M.** Short-faced bats (Phyllostomidae: Stenodermatina): a Caribbean radiation of strict frugivores. *Journal of Biogeography* 34(2), 364-375. DOI: 10.1111/j.1365-2699.2006.01610.x
- 2006 **Dávalos, L.M.** The geography of diversification in the mormoopids (Chiroptera: Mormoopidae). *Biological Journal of the Linnean Society* 88(5), 101-118. DOI: 10.1111/j.1095-8312.2006.00605.x
- 2006 Ochman, H., **L.M. Dávalos**. The nature and dynamics of bacterial genomes. *Science* 311(5768), 1730-1733. DOI: 10.1126/science.1119966
- 2005 **Dávalos, L.M.** Molecular phylogeny of Funnel-eared bats (Chiroptera: Natalidae), with notes on biogeography and conservation. *Molecular Phylogenetics and Evolution* 37(1), 91-103. DOI:10.1016/j.ympev.2005.04.024
- 2005 Fjeldså, J., **M.D. Álvarez**, J.M. Lazcano, B. León. Illicit Crops and Armed Conflict as Constraints on Biodiversity Conservation in the Andes Region. *Ambio* 34(3), 205-211. DOI: 10.1579/0044-7447-34.3.205
- 2004 Carstens, B.C., J. Sullivan, **L.M. Dávalos**, P.A. Larsen, S.C. Pedersen. Exploring population genetic structure in three species of Lesser Antillean bats. *Molecular Ecology* 13(9), 2557-2566. DOI: 10.1111/j.1365-294X.2004.02250.x
- 2004 **Dávalos, L.M.**, S.A. Jansa. Phylogeny of the Lonchophyllini (Chiroptera: Phyllostomidae). *Journal of Mammalogy* 85(3), 404-413. DOI: 10.1644/1545-1542(2004)085<0404:POTLCP>2.0.CO;2
- 2004 **Dávalos, L.M.** Phylogeny and biogeography of Caribbean mammals. *Biological Journal of the Linnean Society* 81(3), 373-394. DOI: 10.1111/j.1095-8312.2003.00302.x
- 2004 **Dávalos, L.M.** A new Chocoan species of *Lonchophylla* (Chiroptera: Phyllostomidae). *American Museum Novitates* 3426, 1-14. DOI: 10.1206/0003-0082(2004)426<0001:ANCSOL>2.0.CO;2
- 2003 Reddy, S.*, **L.M. Dávalos***. Geographical sampling bias and its implications for conservation priorities in Africa. *Journal of Biogeography* 30(11), 1719-1727. *Equal contribution. DOI: 10.1046/j.1365-2699.2003.00946.x
- 2003 **Álvarez, M.D.** Forests in the time of violence: conservation implications of the Colombian war. *Journal of Sustainable Forestry* 16(3,4), 49-70. DOI:10.1300/J091v16n03_03
- 2003 **Dávalos, L.M.**, R. Sears, G. Raygorodetsky, B. Simmons, H. Cross, T. Grant, T. Barnes, L. Putzel, A.L. Porzecanski. Regulating access to genetic resources under the Convention on Biological Diversity: An analysis of selected case studies. *Biodiversity and Conservation* 12(7), 1511-1524. DOI: 10.1023/A:1023615303748
- 2003 **Dávalos, L.M.**, R. Eriksson. New and Noteworthy records from Ten Jamaican bat caves. *Caribbean Journal of Science* 39(1), 140-144.
- 2002 **Álvarez, M.D.** Illicit crops and bird conservation priorities in Colombia. *Conservation Biology* 16(4), 1086-1096. DOI: 10.1046/j.1523-1739.2002.00537.x
- 2001 Sears, R., **L.M. Dávalos**, G. Ferraz. Missing the forest for the profits: The role of multinational corporations in the international forest regime. *Journal of Environment and Development* 10(4), 345-364.
- 2001 **Álvarez, M.D.** Could peace be worse than war for Colombia's forests?. *The Environmentalist* 21(4), 305-315. DOI: 10.1023/A:1012904318418
- 2001 **Dávalos, L.M.**, T. Brooks. Parc National La Visite, Haiti: a last refuge for the country's montane birds. *Cotinga* 16, 36-39.
- 2001 Brooks, T., **L.M. Dávalos**. The Birds of Île-à-Vache, Haiti. *Caribbean Journal of Science* 37(1,2), 112-115.
- 2001 **Dávalos, L.M.** The San Lucas mountain range in Colombia: How much conservation is owed to the violence? *Biodiversity and Conservation* 10(1), 69-78. DOI: 10.1023/A:1016651011294
- 1999 **Dávalos, L.M.**, J. A. Guerrero. The bat fauna of Tambito, Colombia. *Chiroptera Neotropical* 5(1-

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

Peer-reviewed policy report (2 published)

- 2022 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. Mc Impacts of deforestation and degradation of forests and aquatic ecosystems on human well-being and health
Geoch, 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. *Transformative actions on all drivers of biodiversity loss are urgently required to achieve the global goals by 2050*. Expert Input to the Post-2020 Global Biodiversity Framework. biodiversity & GEO BON.
- 2021 Armenteras, D., E. Berenguer, C.S. Andreazzi, **L.M. Dávalos**, F. Duponchelle, S. Hacon, A.G. Lescano, M.N. Macedo. Impacts of deforestation and degradation of forests and aquatic ecosystems on human well-being and health. Pp. 344-369 in *Amazon Assessment Report 2021 PART II*. C. Nobre, A. Encalada, E. Anderson, F.H. Roca Alcazar, M. Bustamante, C. Mena, M. Peña-Claros, G. Poveda, J.P. Rodriguez, S. Saleska, S. Trumbore, A.L. Val, L. Villa Nova, R. Abramovay, A. Alencar, A.C.R. Alza, D. Armenteras, P. Artaxo, S. Athayde, H.T. Barretto Filho, J. Barlow, E. Berenguer, F. Bortolotto, F.A. Costa, M.H. Costa, N. Cuví, P.M. Fearnside, J. Ferreira, B.M. Flores, S. Frieler, L.V. Gatti, J.M. Guayasamin, S. Hecht, M. Hirota, C. Hoorn, C. Josse, D.M. Lapola, C. Larrea, D.M. Larrea-Alcazar, Z. Lehm Ardaya, Y. Malhi, J.A. Marengo, J. Melack, M.R. Moraes, P. Moutinho, M.R. Murmis, E.G. Neves, B. Paez, L. Painter, A. Ramos, M.C. Rosero-Peña, M. Schmink, P. Sist, H. ter Steege, P. Val, H. van der Voort, M. Varese, G. Zapata-Rios et al. (eds.). New York, United Nations Sustainable Development Solutions Network.

Edited Books (3 published)

- 2021 [Los Orígenes de la Cocaína](#). P. Gootenberg, and **L.M. Dávalos** (eds.). Bogotá: Universidad de los Andes.
- 2020 [Phyllostomid bats: A Unique Mammalian Radiation](#). T. Fleming, **L.M. Dávalos**, and M.A. Ribeiro de Mello (eds.). [Chicago: University of Chicago Press](#).
- 2018 [The Origins of Cocaine: Colonization and Failed Development in the Amazon Andes](#). P. Gootenberg, and **L.M. Dávalos** (eds.). London: Routledge.

Peer-reviewed book sections (11 published)

- 2021 **Dávalos, L.M.** Los fantasmas del desarrollo pasado. Deforestación y coca en la Amazonía occidental. Pp. 41-86 in *Los orígenes de la cocaína. Colonización y desarrollo fallido en los Andes amazónicos*. P. Gootenberg, and L.M. Dávalos (eds.). Bogotá: Universidad de los Andes.
- 2020 **Dávalos, L.M.***, A. Cirranello*, E. Dumont, S.J. Rossiter, D. Rojas. Adapt or live: Adaptation, Convergent Evolution, and Plesiomorphy. Pp. 105-121 in *Phyllostomid bats: A Unique Mammalian Radiation*. T. Fleming, L.M. Dávalos, and M.A. Ribeiro de Mello (eds.). Chicago: University of Chicago Press. *Equal contribution.
- 2020 **Dávalos, L.M.**, P. Velazco°, D. Rojas. Phylogenetics and Historical Biogeography. Pp. 87–103 in *Phyllostomid bats: A Unique Mammalian Radiation*. T. Fleming, L.M. Dávalos, and M.A. Ribeiro de

- Mello (eds.). Chicago: University of Chicago Press.
- 2020 Fleming, T.H., **L.M. Dávalos**, M.A. Ribeiro de Mello. Overview of this book. Pp. 3–5 in *Phyllostomid bats: A Unique Mammalian Radiation*. T. Fleming, L.M. Dávalos, and M.A. Ribeiro de Mello (eds.). Chicago: University of Chicago Press.
- 2019 Yohe, L.R.♦, L. Liu, **L.M. Dávalos**, and D.A. Liberles. Protocols for the molecular evolutionary analysis of membrane protein gene duplicates. Pp. 49-62 in *Computational Methods for Protein Evolution*. T.T. Sikosek (ed.). New York: Springer.
- 2018 **Dávalos, L.M.** The Ghosts of Development Past: Deforestation and Coca in Western Amazonia. Pp. 19-51 in *The Origins of Cocaine: Colonization and Failed Development in the Amazon Andes*. P. Gootenberg, and L.M. Dávalos (eds.). London: Routledge.
- 2012 **Dávalos, L.M.**, S. Turvey. West Indian mammals: The old, the new, and the recently extinct. Pp. 157-202 in *Bones, Clones and Biomes: The History and Geography of Recent Neotropical Mammals*. B. Patterson, and L. P. Costa (eds.). Chicago: University of Chicago Press.
- 2011 Pinedo Vasquez, M., **L.M. Dávalos**. The river-refuge hypothesis and other contributions of Márcio Ayres to conservation science. Pp. 317-324 in *The Amazonian Várzea: The Decade Past and the Decade Ahead*. M. Pinedo Vasquez, M. Ruffino, C. J. Padoch, and E. Brondizio (eds.). New York: Springer.
- 2010 **Dávalos, L.M.** Earth history and the evolution of Caribbean bats. Pp. 96-115 in *Island bats: ecology, evolution, and conservation*. Fleming, T.H., and P.A. Racey (eds.). Chicago: University of Chicago Press.
- 2007 **Álvarez, M.D.** Environmental damages from illicit crops and processing of prohibited drugs in Colombia. Pp. 133-147 in *Extreme conflicts and tropical forests*. de Jong, W., D. Donovan, and A. Ken-ichi (eds.). Dordrecht: Springer.
- 2003 **Álvarez, M.D.** Forests in the time of violence: conservation implications of the Colombian war. Pp. 49-70 in *War and tropical forests: conservation in areas of armed conflict*. Price, S.V. (ed.). Food Products Press, New York. Cross-published in journal.

Editor-reviewed contributions (22 published)

- 2022 **L.M. Dávalos** and N. Magliocca. New findings on deforestation in the western Amazon region. P. 52 in *World Drug Report 2022: Drugs and the Environment*. Lemahieu, J-L., A. Me, C. Carpentier. Vienna: United Nations Office on Drugs and Crime.
- 2021 **L.M. Dávalos**. Bats and Viruses: Research and Future Trends, edited by Eugenia Corrales-Aguilar and Martin Schwemmler. *Quarterly Review of Biology* 96(2), 140-141.
- 2020 **L.M. Dávalos**. Handbook of the Mammals of the World, Volume 9: Bats, edited by Don E. Wilson and Russell A. Mittermeier. *Quarterly Review of Biology* 95(2), 255-256.
- 2020 **L.M. Dávalos***, R.M. Austin, M.A. Balisi, R.L. Begay, C.A. Hofman, M.E. Kemp, J.R. Lund, C. Monroe, A.M. Mychajliw, E.A. Nelson, M.A. Nieves-Colón, S.A. Redondo, S. Sabin, K.S. Tsosie, J.M. Yracheta. A. Pandemics' historical role in inequality. *Science* 368(6497), 1322-2323.
*Corresponding author. DOI: 10.1126/science.abc8953
- 2019 Armenteras, D.*, P. Negret, L.F. Melgarejo, T. Lakes, J. Garcia, T. Krueger, M. Londoño, M. Baumann, **L.M. Dávalos***. Curb Land Grabbing to Save the Amazon. *Nature Ecology and Evolution*. *Equal contribution. DOI: 10.1038/s41559-019-1020-1
- 2017 Cooke, S.B., **L.M. Dávalos***, A. Mychajliw°, S.T. Turvey, N.S. Upham°. Anthropogenic Extinction Dominates Holocene Declines of West Indian Mammals. *Annual Review of Ecology, Evolution, and Systematics* 48, 301-327. Equal contribution by all authors. *Corresponding author. DOI: 10.1146/annurev-ecolsys-110316-022754
- 2016 Bussink, C., C. Carpentier, **L. M. Dávalos**, P. Davis, A. Duran-Martinez, N. Eichinger, J. Flanders, A. Korenblik, S. Levissianos, D. Macdonald, K. Niaz, T. Pietschmann, M. Raithelhuber, C. W. Saloga, J. Tetley, F. V. Laenen, and A. Vella. The world drug problem and sustainable development. Pp. 63-94 in UNODC, ed. *World Drug Report 2016*. UNODC, Vienna.
- 2012 Donegan, T., **L. Dávalos**. An apparent hybrid *Heliodoxa* hummingbird from the West Andes of

- Colombia. *Conservación Colombiana* (17), 20-25.
- 2010 Romero, C., **L. Dávalos**, M. Castro, D. Armenteras, J. García. El Callejón de los Milagros. *Semana* (1492) 4 December 2010.
- 2008 **Dávalos, L.M.**, A.C. Bejarano. Conservation in conflict: Illegal drugs versus habitat in the Americas. *State of the Wild 2008-2009: A global portrait of wildlife, wildlands, and oceans*. Pp. 218-225 in Fearn, E., (ed.). Washington, D.C.: Island Press.
- 2005 **Dávalos, L.M.** Bats of Puerto Rico. *Caribbean Journal of Science* 41(4), 882-883.
- 2005 **Álvarez, M.D.** Guerrillas in the midst. *Conservation Biology* 19(6), 2040-2043.
- 2005 **Álvarez, M.D.** Colombia: the many faces of the war. *ETFRN Newsletter* 43/44, 63-65
- 2004 **Dávalos, L.M.** and R. Eriksson. *Epicrates subflavus* (Jamaican Boa). Foraging behavior. *Herpetological Review* 35(1), 66.
- 2001 **Álvarez, M.D.** Serranía de San Lucas, Sur de Bolívar: ¿Habrà futuro?. *ACODAL* 194, 13-17.
- 2001 **Álvarez, M.D.** Daños ambientales por cultivos ilícitos y procesamiento de drogas prohibidas en Colombia. *ACODAL* 193, 7-16.
- 2001 **Álvarez, M.D.** Forests under fire. *North American Congress on Latin America [NACLA] Report on the Americas* 35(1), 29-34.
- 2000 **Dávalos, L.M.** La perspectiva ambiental en la mesa de diálogo. *El Tiempo* (Bogotá) 1 September 2000.
- 2000 **Dávalos, L.M.** El Futuro de los bosques de Colombia: ¿serà la paz peor que la guerra? *El Tiempo* (Bogotá) 21 August 2000.
- 2000 **Dávalos, L.M.** Cuál justicia. *El Tiempo* (Bogotá) 15 July 2000.
- 1999 Porzecanski, A.L., R. Sears, T. Grant, L. Putzel, **L. Dávalos**, T. Barnes, H. Cross, G. Raygorodetsky, B. Simmons, P. Chasek. Access to Genetic Resources: An Evaluation of the Development and Implementation of Recent Regulation and Access Agreements. *School of International and Public Affairs Columbia University Environmental Policy Studies Working Paper* #4, 114 pp.
- 1998 Salaman, P.G., T.M. Donegan, A.M. Cuervo, D.E. Davison, **L. Dávalos**. Birds- Aves. *Colombian EBA Project Report Series, Colombia '98: expedition to Serranía de los Churumbelos* 1, 17-21.

Abstracts and short-form publications (33 published)

- 2021 **Shankar, A. ‡, Dávalos, 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.
- 2021 Santana, S. E., Kaliszewska, Z. A., Leiser-Miller, L. B., **Lauterbur, M. E. ‡**, Arbour, J. H., **Dávalos, 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.
- 2020 **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.recomlatinoamerica.net/images/PDFs/Boletines/2020-11-1-Ene-Abr.pdf>
- 2020 **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>
- 2020 **Dávalos, L.M.**, N. Upham. Coronavirus was low risk until it wasn't. Climate change is the same. *Medium* 27 March <https://tinyurl.com/ybntztjs>
- 2019 **Dávalos, L.M.** [Vampire bats help unravel mystery of mammalian sense of smell](#). Nature Ecology and Evolution *Community Post* 16 September 2019.
- 2019 **Dávalos, L.M.** [Discovering the steps to phenotype loss: the case of bat opsins](#). Nature Ecology and Evolution *Community Post* 16 January 2019.
- 2017 **Dávalos, L.M.** [Long-Term Diversity Equilibrium on Islands in a Rapidly Changing World](#). 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.
- 2015 Herrera, J.P., O.M. Warsi, **L.M. Dávalos**, L. Tongasoa, P.C. Wright. The Critically Endangered *Cheirogaleus sibreei* is Discovered in High Elevation Forests In Ranomafana National Park And The Cofav Corridor, Southeast Madagascar. *American Journal of Primatology* 77, 95-95.
- 2014 Sbeglia, G.C., D.E. Dykhuizen, P.C. Wright, **L.M. Dávalos**. Socially facilitated *E. coli* transmission in ringtailed lemurs (*Lemur catta*): Social relationships that promote and prevent the spread of disease. *American Journal of Physical Anthropology* 153, 230-230.
- 2012 Dumont, E.R., **L.M. Dávalos**, A. Goldberg, S.E. Santana, K. Rex, C.C. Voigt. Cranial Morphology, Feeding Performance and Diversification in New World Leaf-Nosed Bats. *Integrative and Comparative Biology* 52, E49.
- 2012 A. Martin, **L.M. Dávalos**, W. Lancaster, A.L. Russell, M. Woller-Skar, A. Corthals. A Comparison of DNA Yields from Different Tissue Types and Storage Media. *Bat Research News* 53(4), 94.
- 2012 **Dávalos, L.M.**, N. Wei, A.L. Russell. Ecological Release and Genetic Signatures of Population Growth in Antillean *Artibeus jamaicensis*. *Bat Research News* 53(4), 78-79.
- 2011 Corthals, A.S.P., **L. Dávalos**, D.W. Martin, R. Rieger, E.I. Chen, A. Koller. Detecting Immune System Response Proteins in a 500 Year-old Inca Mummy. *Journal of Biomolecular Techniques* 22, S64.
- 2011 **Dávalos, L.M.**, A.L. Russell. False Positive and False Negative Error Rates in Mitochondrial Species Delimitation. *Bat Research News* 52(4), 69.
- 2011 Velazco, P.M.°, N.B. Simmons, **L.M. Dávalos**. Combined Analyses of Extant and Fossil Phyllostomid Bats (Chiroptera, Phyllostomidae). *Bat Research News* 52(4), 109.
- 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.
- 2011 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.
- 2009 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.
- 2009 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.
- 2009 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.
- 2009 **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.
- 2008 **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.
- 2008 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.
- 2007 **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.
- 2003 **Dávalos, L.M.** Historical biogeography of the bats of the West Indies. *Bat Research News* 44(4), 134.
- 2002 **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.
- 2001 **Dávalos, L.M.** Species limits and the historical biogeography of the Antillean endemic Genus *Brachyphylla*. *Bat Research News* 42(4), 149-150.
- 1999 **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)

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- 16 September, 2022 **Dávalos, L.M.** *Genomics and the Amazon Frontier*. [The Amazon as a Bioeconomy Superpower: Investing in Innovation and Technology for Sustainable Development](#). New York, NY and via Zoom.
- 12 September, 2022 **Dávalos, L.M.** *How different are bats from non-bats? Insights from the age of genomes*. Biology Seminar Series. University of Bridgeport, CT, Via Zoom.
- 11 August, 2022 **Dávalos, L.M.** *Opening the Genome Frontier and the Future of Bat Diversity*. 19th International Bat Research Conference. Austin, Texas, Via Zoom.
- 20 July, 2022 **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 Latinamerica Regional Consultation. Global Initiative against Transnational Organized Crime Expert Meeting. Via Zoom.
- 23 June, 2022 **Dávalos, L.M.** *Amazon Landscapes and the search for the last frontier*. poetics, ethics and politics of the forest in latin american cultures. Collegium Helveticum. Via Zoom.
- 20 April, 2022 **Dávalos, L.M.** *How different are bats from non-bats? Insights from the age of genomes*. Department of Ecology and Evolution Colloquium. Stony Brook University, NY.
- 14 April, 2022 **Dávalos, L.M.** *How different are bats from non-bats? Insights from the age of genomes*. Department of Ecology and Evolutionary Biology Seminar. Virginia Tech University. Via Zoom.
- 14 March, 2022 **Dávalos, L.M.** *Integrative Biodiversity Science for a Global Future*. Department of Biodiversity, Earth & Environmental Science Seminar. Drexel University. Philadelphia, Pennsylvania and via Zoom.
- 14 January, 2022 **Dávalos, L.M.** *Sensing in the dark*. Florida Museum's Department of Natural History Seminar Series, University of Florida. Via Zoom.
- 22 November, 2021 **Dávalos, L.M.** *Sentir en la oscuridad: ecología molecular de los sentidos de los murciélagos*. Opening Keynote of the IV Congreso Colombiano de Mastozoología. Via Zoom.
- 19 November, 2021 Gootenberg, P., M. Paredes, M.C. Torres, and L.M. Dávalos. [Webinar: Lanzamiento Los Orígenes de la Cocaína](#) moderated by Maria Alejandra Vélez (CESED, UniAndes). Via Zoom.
- 18 November, 2021 Spitzer, P., J. Uriarte, and **L.M. Dávalos**. *Approaches to Global and Environmental Issues* moderated by Sophie Raynard-Leroy (Institute for Globalization Studies, UniAndes). Via Zoom.
- 19 October, 2021 **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, 2021 **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, 2021 **Dávalos, L.M.** [Sensing in the dark: molecular ecology* of #BatSenses](#). Centre for Biodiversity and Conservation Science Seminar, University of Queensland. Via Zoom.
- 21 September, 2021 **Dávalos, L.M.** *Forests, drugs, frontiers*. Drugs and the environment: towards a dedicated booklet for the World Drug Report 2022 – UNODC/GIZ Expert Meeting September 20-21. Via Teams.

- 23 June, 2021 **Dávalos, L.M.** & L.R. Yohe. *Protocols for maximizing future use of bat tissues*. Bats without Borders Webinar. Via Zoom.
- 21 June, 2021 **Dávalos, L.M.** [Diversity in the Skies: Molecular Ecology of #BatSenses](#). II Virtual Meeting of Systematics, Biogeography and Evolution (SBE). Via Zoom.
- 27 May, 2021 **Dávalos, L.M.** *¿Cómo interactúan los cultivos ilícitos y la deforestación en Colombia?* Asamblea de Estudiantes, Universidad Nacional de Colombia. Via Zoom.
- 22 April 2021 **Dávalos, L.M.** [Forests, bats, guerrillas: A systems approach for thought and action in the Anthropocene](#). Scott A. Margolin '99 Lecture in Environmental Affairs, Middlebury College. Via Zoom.
- 12 February & 3 March 2021 **Dávalos, L.M.** [Diversity in the Skies: A Genomic Journey among Bats](#). Biological Sciences Darwin Day Seminar, DePaul University and EAWAG. Via Zoom.
- 12 November 2020 **Dávalos, L.M.** [Some of what I learnt from collecting “big data” from decidedly non-model organisms](#). IACS Seminar. Via Zoom.
- 29 October 2020 **Dávalos, L.M.** [Más Preguntas que Respuestas en la Genómica Sensorial de Murciélagos](#). Seminario Virtual de Ciencias Biológicas. Via Youtube.
- 28 October 2020 **Dávalos, L.M.** *Integrative Biodiversity Science for a Global Future*. Wyss Symposium on Integrative Biodiversity Conservation Science. Via Zoom.
- 14 October 2020 **Dávalos, L.M.** [Webinar: Economías Ilícitas y Medio Ambiente](#). Centro de Estudios sobre Seguridad y Drogas. Via WebEx.
- 9 October, 2020 **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 2020 **Dávalos, L.M.** & A.P. Corthals. [COVID-19 in context](#). Indian Scientists' Response to COVID-19. Via Zoom.
- 31 July 2020 **Dávalos, L.M.**, A. Hart, T. Kingston, A. Morss. [Bats in the Media Webinar](#) moderated by Dan Riskin. Via Zoom.
- 29 July 2020 **Dávalos, L.M.** [Building an inclusive bioethics for field work in the 21st century](#). [Gender and diversity in STEM: building an inclusive community](#). I Virtual Meeting of Systematics, Biogeography and Evolution (SBE). Via Zoom.
- 13 June 2020 **Dávalos, L.M.** [Muerte y Vida de la biodiversidad: el caso de las Antillas](#). Semana de los 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.

Conference Presentations (Last 3 years)

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- 28 July, 2022 **Dávalos, L.M.** *How different are bats from non-bats? Insights from the age of genomes*. II Virtual Meeting of Systematics, Biogeography and Evolution (SBE). Via Zoom.
- 26 May, 2021 **Dávalos, L.M.** [Phyllostomid phylogeny is still a work in progress](#). World Bat Twitter Conference 2.
- 29 May 2020 **Dávalos, L.M.** [What Makes Phyllostomid Bats A Unique Mammalian Radiation](#). World Bat Twitter Conference 1.

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 2022	Sarah Vaccaro
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 2021	Julie Micko
Summer 2019–Spring 2020	Clara Tucker
Spring 2018–Spring 2019	Sarah Heder
Summer–Fall 2018	Kaitlyn Malewicz
Summer 2017	Yakov Pichkar
Fall 2014–Spring 2017	John Navilio
Spring 2014–Spring 2016	Greg Poterewicz
Summer 2015–Spring 2016	Ramatu Abubakar (SBU), Sanah Afzal (John Jay College), Margarita Bartasunaite (John Jay College), Bhavana Patil (SBU)
Spring 2013	Rachel Lohrdal (Anthropology program)
Fall 2012–Spring 2013	Yesha Shah
Fall 2012–Spring 2013	Donald J. Pantino
Summer 2010–Fall 2010	Melissa Zheng
Spring 2010	Alexander Lucaci
Spring 2010	Tiffany Wang
Fall 2009–Spring 2011	Anne Szeto
Fall 2009–Spring 2010	Rosa Guerrero
Spring 2009	Co-advised undergraduate engineering students Muhammad Hussain, Kevin Li and Jawad Rana, 3rd place winners of the 2009 Ureca! Competition

Graduate courses and seminars taught

Intensive 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	Principles of Evolution BEE551 Fall 2013
Intensive 3X 8-hr day workshop	Análisis Espacial para la Conservación de la Biodiversidad y Manejo de Paisajes Tropicales (Spatial Analysis for Biodiversity Conservation and Tropical Landscape Management 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.

3.0 credits	Gurevitch) offered every Fall 2011–2016
1.0 credit	Conservation Biology, BEE 572 offered Fall 2010–present
	Seminar on the evolutionary consequences of anthropogenic activities, BEE 692 (with W. Aguirre) 2009

Dissertation and other advising

Joined lab Spring 2021	Nicolette Sipperly, SBU–Ecology and Evolution
Joined lab Spring 2021	Paul Donat, SBU–Ecology and Evolution
Joined PhD Fall 2019	Alexis Brown, SBU–Ecology and Evolution
Joined PhD Fall 2018	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 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 <i>Universidad Nacional</i> (Bogota, Colombia)
E&E MA, Spring 2014	Xiayou Zhang, SBU–Ecology and Evolution
E&E MA dropout Spring 2014	Shaelyn Bishop, SBU–Ecology and Evolution
E&E MA, Spring 2014	Samantha DelSerra, SBU–Ecology and Evolution
E&E MA, Spring 2014	Romain Dahan, SBU–Ecology and Evolution
E&E MA, Spring 2013	Genna Tudda, SBU–Ecology and Evolution
BSc, Spring 2011	Miguel Santiago Núñez, undergraduate student at <i>Universidad Autónoma de Santo Domingo</i> (UASD)
E&E MA, Spring 2011	Aaron Goldberg, SBU–Ecology and Evolution
E&E MA, Spring 2011	Amanda Crow, SBU–Ecology and Evolution
E&E MA, Spring 2011	Alison Onstine, SBU–Ecology and Evolution
Dissertation committees	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 Spring 2017), Anusha Shankar (SBU–E&E, graduated Fall 2019), Mihir Umarani (SBU–E&E, graduated Fall 2021), David Vanier (IDPAS), Imogene Welles (SBU–E&E), Nicolas Wiggengerhauser (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 2018	Dr. Laurel R. Yohe (Assistant Professor at University of North Carolina, Charlotte)
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 2021	Faculty representative, Code of Conduct committee
Summer 2020–Spring 2021	Department culture committee member
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	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
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, 2 nd Grand Award Animal Sciences category at Intel International Science and Engineering Fair 2011
Summer 2010	Mentoring research of Laura Barger (admitted at University of Pennsylvania), Long Island High School student
Summer 2009–Summer 2010	Mentoring research of Peter Connell (admitted at SUNY College of Environmental Science and Forestry), Long Island High School student, semifinalist at the Long Island Junior Science and Humanities Symposium, NOAA "Taking the Pulse of

Spring 2010–Spring 2012	the Planet" award at NYSSEF 2011
Fall 2009–Spring 2010	Mentoring research of volunteer Mark Hall
Fall 2008–Fall 2009	Mentoring research of Kendra Cornejo, High School student, Intel Science Talent Search Semifinalist 2011 (at Gurevitch lab)
	Mentoring research of volunteer and SBU UG graduate Elizabeth Simola

Past Experience

2015–2016	<u>United Nations Office on Drug and Crime</u> Consultant for the United Nations 2016 World Drug Report thematic chapter on environmental sustainability <ul style="list-style-type: none"> 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	<u>Open University, Milton Keynes, UK</u> Lecturer (US equivalent: Assistant Professor): Molecular Ecology <ul style="list-style-type: none"> Generated exercises in evolutionary biology for non-traditional, distance learners
2005–2006	<u>Columbia University, New York, USA</u> Instructor, Department of Ecology, Evolution, and Environmental Biology (E3B) <ul style="list-style-type: none"> Co-designed and co-taught adult learner course: Evolution: from Darwin to DNA
2005–2006	<u>American Museum of Natural History, New York, USA</u> Postdoctoral Research Associate, PI: Susan L. Perkins <ul style="list-style-type: none"> Generated and aligned genome-based orthologs from malaria parasites Discovered and mitigated sources of systematic error in malaria parasite phylogenomics
2004–2005	<u>University of Arizona, Tucson, USA</u> Postdoctoral Research Associate, PI: Howard Ochman <ul style="list-style-type: none"> Co-designed and implemented strategies for finding prokaryotic pseudogenes Discovered the largest set of <i>E. coli</i> 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 <ul style="list-style-type: none"> 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	<u>Colombia '98 Expedition</u> Field Researcher <ul style="list-style-type: none"> Organized, raised funds, and conducted field ornithology survey at Serranía de los Churumbelos, site declared National Natural Park Serranía de los

- Churumbelos on 30 August 2007 partly based on this 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 **Universidad del Valle, Cali, Colombia**
Teaching Assistant
- Assisted teaching and evaluation of advanced ecology, evolutionary biology, and genetics undergraduate-level lecture

Languages

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

Media Mentions and Appearances (original reporting only)

- 2022 Lambrecht, L. Waarom Colombia de war on drugs verliest *Knack* 27 October <https://www.knack.be/nieuws/wereld/waarom-colombia-de-war-on-drugs-verliest/>
- 2022 Coupeau, S. Dr. Steeve Coupeau Goes One-on-One with Professor Liliana Dávalos NYIHA Media 3 October <https://nyiha.medium.com/dr-steeve-coupeau-goes-one-on-one-with-professor-liliana-davalos-882137f4f60d>
- 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 Mousterde, 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-insert-yourself-in-them-qa-with-biologist-liliana-davalos/>
- 2021 Hittier, R. Bat Superpowers. *PBS NOVA* 15 September <https://www.pbs.org/video/bat-superpowers-nfuph6/>
- 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

- 2020 <https://www.twis.org/16-june-2021-episode-829-why-are-bats-disease-vectors/>
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-forensic-pathologist-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-change-us>
- 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/dia-sin-carne-si-funciona-contra-el-cambio-climatico-esto-dice-la-ciencia/>
- 2020 Wilcox, C. Out of the Darkness. *Bats* 39(3): 14–17 <https://www.batcon.org/article/out-of-the-darkness/>
- 2020 Montanari, S. Gene Genius: Researcher and BCI science advisory committee member unveils new knowledge about bat genomes. *Bats* 39(3):24 <https://www.batcon.org/article/gene-genius/>
- 2020 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/>
- 2020 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/>
- 2020 Anonymous. Comment les chauves-souris survivent-elles à des virus mortels? *Radio-Canada* 25 July <https://ici.radio-canada.ca/nouvelle/1721849/chiropteres-genome-six-especes-consortium-bat1k>
- 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>
- 2020 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>
- 2020 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>
- 2020 Anonymous. Holy goblet cells! Scientists studying bat-immunity. *InnovateLI* 18 June <https://www.innovateli.com/innovation-in-the-age-of-coronavirus/>
- 2020 Hertzberg, N. Les secrets de la chauve-souris, «souche à 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 <https://tinyurl.com/y43sjwq5>
- 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-respndio-mal/>
- 2019 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>
- 2019 Paz, A. Incendios en la Amazonía de Brasil traen consecuencias devastadoras. *Mongabay LatAm* 22 August <https://es.mongabay.com/2019/08/incendios-en-amazonia-de-brasil-y-afectacion-flora-y-fauna/>
- 2019 Paz, A. Día Internacional de los Bosques Tropicales: ecosistemas en máxima alerta. *Mongabay LatAm* 26 June <https://es.mongabay.com/2019/06/dia-internacional-de-los-bosques-tropicales/>
- 2019 Power, M. Your Drug Habit Is Destroying the Planet. *Vice* 29 May https://www.vice.com/en_us/article/j5wjwp/your-drug-habit-is-destroying-the-planet
- 2019 Paz, A. “Luego del acuerdo con las Farc, los conflictos ambientales cambiaron pero no desaparecieron” *Semana Sostenible* 4 May <https://tinyurl.com/yy2vn2bj>
- 2019 Dunavin, D. What Could The Tiny Shrew Teach Us About Science’s Biggest Questions? *WSHU Public Radio* 22 April <https://tinyurl.com/yyufppe3>
- 2019 Zeller, G. Honey, I shrunk the shrew (and maybe your kidney). *InnovateLI* 15 April <http://www.innovateli.com/honey-i-shrunk-the-shrew-and-maybe-your-kidney/>
- 2019 Smith, A. Eco-friendly drug dealers are now selling cocaine in reusable plastic vials. *Metro* 7 January <https://tinyurl.com/yb4ymf2a>
- 2018 Bates, T. How peace with FARC threatens Colombia’s forests. *Futurity* 12 September <https://www.futurity.org/colombia-farc-deforestation-1930522-2/>
- 2018 Rodriguez Mega, E. From Fog of War to Flames of Peace—Wildfires Surge in Post-FARC Colombia. *Scientific American* 26 November <https://www.scientificamerican.com/article/from-fog-of-war-to-flames-of-peace-wildfires-surge-in-post-farc-colombia/>
- 2018 Silva, S., H. Calle. Colombia le dice adiós a sus selvas. *Semana* 29 September <https://www.semana.com/nacion/articulo/colombia-le-dice-adios-a-sus-selvas/585144>
- 2018 Rodriguez, N. El Estado aplazado. *El Espectador* 20 July <https://www.elespectador.com/opinion/el-estado-aplazado-columna-801373>
- 2018 Haupt, R. Episode 278 | LOST. Science... sort of (podcast) 15 March <https://tinyurl.com/yaye2jds>
- 2018 Calle, H. La catalana que estudia los incendios forestales en Colombia. *El Espectador* 18 February <https://tinyurl.com/y797wtjg>
- 2018 Kobilinsky, D. Omnivorous bats have better evolutionary success. *The Wildlife Society* 14 February <http://wildlife.org/omnivorous-bats-have-better-evolutionary-success/>
- 2018 Mowbray, S. Trumping Colombia’s peace: U.S. drug war threatens fragile accord, forests. *Mongabay* 5 February <https://tinyurl.com/yb9f2zez>
- 2017 Sen, M. Is Cocaine Vegan? It Depends on Who You Ask. *Vice Munchies* 29 November https://munchies.vice.com/en_uk/article/zmzjnw/is-cocaine-vegan-it-depends-on-who-you-ask
- 2017 Sheridan, K. Giant Caribbean sloths disappeared in extinction that also killed off monkeys and giant rodents. *Newsweek* 13 November <https://tinyurl.com/yck2bkfn>
- 2017 *The Scientist* Staff. Image of the Day: The Last Sloth. *The Scientist* 16 November <https://www.the-scientist.com/?articles.view/articleNo/50960/title/Image-of-the-Day--The-Last-Sloth/>
- 2017 Pearce, F. Human arrivals wiped out the Caribbean’s giant ground sloths. *New Scientist* 10 November <https://www.newscientist.com/article/human-arrivals-wiped-caribbeans-giant-ground-sloths/>
- 2017 Bermúdez-Liévano, A. Cocaine Farmers Are Hunting for an Alternative. *Vice* 7 November https://www.vice.com/en_us/article/ywbnxw/cocaine-farmers-are-hunting-for-an-alternative
- 2017 Weisberger, M. Humans Doomed Caribbean’s ‘Lost World’ of Ancient Mammals. *LiveScience* 7 November <https://www.livescience.com/60870-caribbean-lost-world-ancient-mammals.html>
- 2017 Mychajliw, A. On the extinction (and survival) of Caribbean mammals. *Nature Ecology and Evolution Behind the Paper* 6 November <https://tinyurl.com/y9nkech8>
- 2017 Rodriguez Mega, E. Cocaine trafficking is destroying Central America’s forests. *Science* 16 June <http://www.sciencemag.org/news/2017/06/cocaine-trafficking-destroying-central-america-s-forests>
- 2017 Webster, M. A job well done. *Grand Valley Lanthorn* 12 April <http://www.lanthorn.com/article/2017/04/student-scholars-day-presentations>
- 2017 Le Page, M. Coca’s role in killer slide. *New Scientist* 5 April <https://tinyurl.com/k6agxsv>
- 2017 Cardona, V. Planes de desarrollo inconclusos favorecen deforestación y cultivos de coca. *UN*

- Periódico* 17 March <https://tinyurl.com/l29afrr>
- 2017 Vernes, S. The bat blueprint. *On Biology* 8 March <https://blogs.biomedcentral.com/on-biology/2017/03/08/the-bat-blueprint-bat1k/>
- 2017 Grosser, D. Registration opens for Student Scholars Day. *Grand Valley Lanthorn* 15 February <http://www.lanthorn.com/article/2017/02/student-scholars-day-2017>
- 2017 Ray, F. Ecologist Special Report: Ecological Conservation in Post-Conflict Colombia. *The Ecologist* 10 February <https://tinyurl.com/ziqcboy>
- 2017 Dunaief, D. SBU'S Dávalos living her dream job. *TBR NewsMedia* 3 February <http://tbrnewsmedia.com/sbus-davalos-living-her-dream-job/>
- 2017 Kaiser, S. Equilibrium A Distant Dream for Island Bats. *Island Conservation* 27 January <https://www.islandconservation.org/8-million-years-equilibrium-diversity/>
- 2017 Anonymous. In praise of bats. *Nature Ecology and Evolution* 24 January 1:0071 <http://www.nature.com/articles/s41559-017-0071>
- 2016 Gaworecki, M. Failed economic development plans drive deforestation in Andean Amazon. *Mongabay.com* 20 October <https://news.mongabay.com/2016/10/failed-economic-development-plans-drive-deforestation-in-andean-amazon/>
- 2016 Anonymous. Proyectos de infraestructura, mayores deforestadores del amazonas. *El Tiempo* 30 September <http://tinyurl.com/jbgm797>
- 2016 Arsenault, C. Don't blame cocaine for South American forest loss, study says. *Reuters* 28 September <http://www.reuters.com/article/us-latam-environment-landrights-idUSKCN11Y2HY>
- 2016 Anonymous. Cocaine Not to Blame for Western Amazon Forest Loss, Study Says. *Voice of America News* 28 September <http://tinyurl.com/j6ufosy>
- 2016 Dollinger, A. Devouring 1,000 Mosquitoes an Hour, Bats Are Now Welcome Guests as Zika Fears Rise. *New York Times* 4 July <http://www.nytimes.com/2016/07/05/nyregion/devouring-1000-mosquitoes-an-hour-bats-are-now-welcome-guests-as-zika-fears-rise.html>
- 2016 Montanari, S. A New Family Tree For One Of The World's Most Endangered Mammals. *Forbes /Science* 25 April <http://tinyurl.com/jk86auw>
- 2016 Howard, J. An Exhaustive Lemur Family Tree Sheds Light On These Rare, Threatened Primates. *HuffPost Science* 25 April <http://tinyurl.com/h7podbs>
- 2016 Anonymous. Especiação dos morcegos notiliónóideos do Novo Mundo ocorreu, afinal, antes do Quaternário. *Correio da Beira Serra* 15 February. <http://tinyurl.com/zrs5klm>
- 2016 Velasquez, R. Deforestación amenaza la serranía de San Lucas. *El Colombiano* 9 February. <http://www.elcolombiano.com/medio-ambiente/deforestacion-amenaza-la-serrania-de-san-lucas-KJ3568378>
- 2015 Mathewson, S. Ancient Dental Records Suggest Nectar-Drinking Bat Was Actually Omnivorous. *Nature Worlds News* 26 November <http://tinyurl.com/nguvbh5>
- 2015 O'Neill, B. Under the Microscope: tooth analysis shows how bat diet evolved. *The Statesman* 24 November <http://tinyurl.com/qz6ohuc>
- 2015 Velasquez, R. Monocultivo salvaje. *El Colombiano* 18 September. <http://www.elcolombiano.com/monocultivo-salvaje-JD2731218>
- 2015 Velasquez, R. 37.000 km² deforestados en solo 13 años. *El Colombiano* 1 September. <http://www.elcolombiano.com/37-000-km2-deforestados-en-solo-13-anos-JX2635964>
- 2015 Villano, J. La palma africana y sus afectaciones. *pulzo* 18 August <http://www.pulzo.com/opinion/la-palma-africana-y-sus-afectaciones/392766>
- 2015 Anonymous. Peor que la coca. *Semana* 15 August <http://www.semana.com/confidenciales/articulo/el-ultimo-estudio/438679-3>
- 2015 O'Neill, S. Cocaine is bad for Colombia's forest but big farming is worse. *New Scientist* 8 August. <https://tinyurl.com/p6voafz>
- 2015 Moylan, E. Axios Review - a different route to peer review. *BioMed Central blog* 27 May. <http://blogs.biomedcentral.com/bmcblog/2015/05/27/axios-review-different-route-peer-review/>
- 2015 Le Page, M. Home-brew heroin: soon anyone will be able to make illegal drugs. *New Scientist* 20 May. <https://www.newscientist.com/article/mg22630224-400-home-brew-heroin-soon-anyone-will-be-able-to-make-illegal-drugs/>

- 2015 Murray, D. It's not just sport stars using cocaine, it's also the drug of choice for well-heeled mums and dads. *Courier Mail* 28 February.
- 2014 Rockett, C. The full reach of addiction. *Boulder Weekly* 23 October
<http://www.boulderweekly.com/article-13524-the-full-reach-of-addiction.html>
- 2014 Dybas, C. Whither the diversity of life on Earth? NSF, partners award \$23 million for studies of planet's biodiversity? *NSF News* 10 September
http://www.nsf.gov/news/news_summ.jsp?cntn_id=132506
- 2014 AMNH. Helping Fossils Find Their Place in the Tree of Life. *AMNH News* 9 May
<http://tinyurl.com/kbwtdh8>
- 2014 Baral, S. Earth Day 2014: Find Out What Environmental Problems 20 Latin American Countries Face. *Latin Times* 22 April <http://tinyurl.com/knzwx6>
- 2014 Sammy. The Evolution of Frugivory in the Bat family of Phyllostomidae. *Beauty In the Bones: Bone of the Month*, 14 April <https://beautifullybony.wordpress.com/2014/04/14/933/>
- 2014 Anonymous. Scientists study bats to understand how we smell. *Farm and Dairy* 13 March
<http://tinyurl.com/l5bp8k8>
- 2014 Smith, B. The Emotional Center Of Bat Brains Gives Insight Into Our Own Cognitive Processes. *redOrbit* 6 March <http://tinyurl.com/khh5m6b>
- 2014 Smith, B. Study Of Olfaction In Fruit-Eating Bats Could Shed Light On Our Own Sense Of Smell. *redOrbit* 4 March <http://tinyurl.com/my5zr9q>
- 2014 Velasquez, R. Ganadería improductiva deforesta la Amazonia colombiana. *El Colombiano* 3 March
<http://tinyurl.com/m553jeo>
- 2014 Dybas, C. By dark of night, how do bats smell their way to fruit? *NSF Discovery* 3 March
http://www.nsf.gov/discoveries/disc_summ.jsp?cntn_id=130600&org=NSF&from=news
- 2014 Locklear, M. Under the microscope: vegetarian bats. *Stony Brook Statesman* 25 February
<http://sbstatesman.com/2014/02/25/under-the-microscope-vegetarian-bats/>
- 2014 Boyle, R. Like Darwin's Finches, But Weirder, Bat Faces Showcase Amazing Adaptations. *Eek Squad* a Popular Science Blog 7 February <http://tinyurl.com/p6ytub6>
- 2014 Ahlstrom, D. Scientist using bats to understand sense of smell. *The Irish Times* 29 January
<http://tinyurl.com/ogp2fus>
- 2013 Byrne, M. PLOS ONE goes to the Mile-high city for ASM 2013. *EveryONE* 15 May
<http://blogs.plos.org/everyone/2013/05/15/plos-one-goes-to-the-mile-high-city-for-asm-2013/>
- 2013 Anonymous. Experto en biodiversidad responde dudas a lectores de @elespectador. *El Espectador* 21 February <http://tinyurl.com/a95wfc8>
- 2012 Goldman, J.G. The best animal stories of 2012. *The Thoughtful Animal* 28 December
<http://tinyurl.com/n9ydobf>
- 2012 Newitz, A. What destroyed the bats of the Caribbean? *Discovery News* 13 November
<http://news.discovery.com/animals/bats-caribbean-sea-level-121113.html>
- 2012 Newitz, A. Solving the ancient mystery of what destroyed the bats of the Caribbean. *io9* 12 November <http://tinyurl.com/bs7l6so>
- 2012 Dunning, H. Pneu-mummy-a: Comparing the protein profile of a 500-year-old Inca mummy to modern humans reveals an active lung infection prior to sacrifice. *The Scientist* 1 November
<http://www.the-scientist.com/?articles.view/articleNo/32944/title/Pneu-mummy-a/>
- 2012 AMNH. New Study: Nectar-drinking Traits in Bats Evolved More Than Once. *News and Blogs* 26 September <http://tinyurl.com/cnk9hb7>
- 2012 possum. Science Tidbits. *Daily Kos* 20 August <http://tinyurl.com/m44utlk>
- 2012 Lamb, E. Mummy Had Lung Infection, Technique Reveals. *Scientific American* 60-second Science 14 August <http://tinyurl.com/kal55ra>
- 2012 Reuters. Novel approach finds lung infection in 500-year-old mummy. *Reuters TV* 10 August
<http://tinyurl.com/9tqd5cr>
- 2012 Klink, S. Protein Profiling of a Lung Infection in a 500-Year-Old Mummy. *Promega Connections* 10 August <http://tinyurl.com/9p3bybt>
- 2012 Anonymous. Diagnostican enfermedad a una momia incaica de 500 años. *Paleorama*. 5 August
<http://tinyurl.com/9mjs8ob>

- 2012 Bhanoo, S.N. Disease Diagnosed in a 500-Year-Old Mummy. *New York Times* 31 July p. D3 <http://www.nytimes.com/2012/07/31/science/disease-diagnosed-in-500-year-old-mummy.html>
- 2012 Coyne, J. Ancient sacrificed children studied for infection. *Why Evolution is True* 28 July <http://tinyurl.com/borredt>
- 2012 Berezow, A. How to Detect a Mummy's Immune Response. *NewtonBlog* 27 July <http://www.realclearscience.com/blog/2012/07/how-to-detect-a-mummys-immune-response.html>
- 2012 Whyte, C. Ancient Inca Mummy had Lung Infection at Time of Sacrificial Death. *International Science Times* 27 July <http://tinyurl.com/bw4y2t2>
- 2012 Barribeau, T. What was this mummy sick from? Now we know [updated]. *io9* 27 July <http://io9.com/5929119/what-did-this-mummy-die-of>
- 2012 Maugh, T.H. 500-year-old Incan mummy had lung infection, probably TB. *Los Angeles Times* 27 July <http://tinyurl.com/c2qubbl>
- 2012 George, K. 'Maiden' Inca mummy suffered lung infection before sacrifice. *Empower Network* 27 July <http://tinyurl.com/cl8bmdq>
- 2012 Redacción. Detectan infección pulmonar en una momia inca de 500 años. *BBC Mundo* 26 July http://www.bbc.co.uk/mundo/noticias/2012/07/120726_momia_proteina.shtml
- 2012 Anonymous. Exclusivo: descubren cómo falleció "La Doncella" de Llullaillaco exhibida en Salta. *Contexto* 26 July <http://tinyurl.com/c57nnpz>
- 2012 Waugh, R. Incan mummy frozen after human sacrifice still has infection in lungs after 500 years - giving new insight into diseases of the past. *UK Daily Mail Online* 26 July <http://tinyurl.com/cbtd2nn>
- 2012 Saey, T.H. Maiden shows signs of TB-like infection. *Science News* 26 July <http://tinyurl.com/cphsaar>
- 2012 Anonymous. Ancient Mummy Shows Person Had Lung Infection at Time of Death. *Popular Archaeology* 25 July <http://tinyurl.com/bmezdt6>
- 2012 Castro, J. 'Maiden' Inca Mummy Suffered Lung Infection Before Sacrifice. *LiveScience* 25 July <http://www.livescience.com/21849-maiden-inca-mummy-suffered-lung-infection.html> Reproduced by *The Huffington Post* <http://tinyurl.com/bl74t9x>
- 2012 Brogden, R. The glamour drug responsible for Colombian rainforest destruction. *Deforestation and GIS* 12 May <http://tinyurl.com/a3xb8y6>
- 2011 Anonymous. Chauves-souris, niches écologiques et nouvelles espèces. *Maxisciences.com* 4 December <http://tinyurl.com/6v5mpda>
- 2011 McDonald, R. A Bat's Skull Determines Its Diet. *Quirks and Quarks* 3 December http://cbc.ca/quirks/media/2011-2012/qq-2011-12-03_04.mp3
- 2011 Anonymous. Evolution: Big bites help bats diversify. *Nature* 480(8): 8. <http://www.nature.com/nature/journal/v480/n7375/full/480008c.html>
- 2011 Álvarez, G. Dos estudios sobre la evolución muestran cómo ocurren cambios estructurales. *SinDioses.org* 30 November <http://www.sindioses.org/noticias/murcielagos.html>
- 2011 Schmidt, M. Fledermäuse: Artenexplosion dank Beißkraft. *Extremnews.com* 28 November <http://www.extremnews.com/nachrichten/natur-und-umwelt/e03e13b48fe5bf6>
- 2011 Reints, T. Bat Skull Morphology Provides Clues Into How Species Diversify. *Naturallyselected.org* 25 November <http://tinyurl.com/7fa4y56>
- 2011 De Winter, G. Bat Skulls And Evolution. *Science 2.0* 24 November http://www.science20.com/curious_cub/bat_skulls_and_evolution-84964
- 2011 Welsh, J. Short Snouts Gave Fruit Bats a Forceful Bite. *LiveScience* 23 November <http://www.livescience.com/17173-bat-skull-evolution-fruit.html>
- 2011 Newitz, A. One fifth of all mammals are bats. Here's why. *io9* 23 November <http://tinyurl.com/chbwcvl>
- 2011 Martin, G. The Ecology of Conflict. *California Magazine* Fall <http://alumni.berkeley.edu/news/california-magazine/fall-2011-good-fight/ecology-conflict>
- 2011 Siegle, L. The end of the line: Does cocaine abuse has an ethical impact?. *The Observer* 21 August <http://www.guardian.co.uk/environment/2011/aug/21/lucy-siegle-cocaine-abuse-ethical>
- 2011 Peters, J. DEFORESTATION: Study shows how coca production drives deforestation in Colombia. *Climatewire* 29 April (subscribers only) <http://www.eenews.net/climatewire/2011/04/29/3/> Reproduced by *Scientific American* at <http://tinyurl.com/3vhus45>

- 2011 Aguilar, E. Las plantaciones de coca influyen de forma indirecta en la deforestación de los bosques. DiCyT 1 April <http://tinyurl.com/4yo9kcs>
- 2011 Velasquez, R. Tala selectiva en la selva de Bahía Solano. *El Colombiano* 21 March <http://tinyurl.com/3hngqok>
- 2011 Anonymous. Los Bosques de Colombia. *El País* (Cali) 25 February <http://www.elpais.com.co/elpais/opinion/editorial/bosques-colombia>
- 2011 Sørensen, L. Kokain ødelegger regnskogen. *Forskning.no* 23 February <http://www.forskning.no/artikler/2011/februar/280055>
- 2011 Anonymous. Colombia ha perdido en bosques el equivalente a dos veces y media la isla de Jamaica. *Semana.com* 22 February <http://tinyurl.com/4g6ohyw>
- 2011 Handwerk, B. Cocaine to Blame for Rain Forest Loss, Study Says. *National Geographic Daily News* 18 February <http://tinyurl.com/3z8ryds>
- 2011 Dan, O. Cereea mare de cocaină distruge pădurile din Columbia. *evz.ro* 16 February <http://tinyurl.com/3cybh4q>
- 2011 Anonymous. El cultivo ilegal de coca aumenta la destrucción de las selvas de Colombia. *Agencia EFE* (Newswire) 11 February <http://tinyurl.com/3b4dbny>
- 2011 Woods, M. Cocaine production increases destruction of Colombia's rainforests. *ACS PressPac* and podcast 9 February <http://tinyurl.com/3exhohn>
- 2011 Anonymous. Déforestation: la production de cocaïne nuit à la biodiversité. *Maxisciences.com* 5 February <http://tinyurl.com/d58jeot>
- 2011 Velasquez, R. La coca se chupa la savia de la selva amazónica. *El Colombiano* 4 February <http://tinyurl.com/45tsyw5>
- 2011 Miserey, Y. La coca grignote la forêt colombienne. *Le Figaro* 2 February <http://tinyurl.com/4qnh6sx>
- 2011 Anonymous. Report: Cocaine Production Increases Destruction of Colombia's Rainforests. *Voice of America* VOAnews.com 31 January <http://tinyurl.com/3kfd4ns>
- 2011 Sohn, E. Cocaine killing forests in Colombia. *Discovery News* 28 January <http://news.discovery.com/earth/cocaine-deforestation-colombia-110128.html>
- 2011 Supelano, G. El otro precio de la coca. *El Espectador* 27 January <http://www.elespectador.com/impreso/vivir/articulo-247302-el-otro-precio-de-coca>
- 2011 Kirkland, E. Cocaine production killing Colombia's rainforests. *mongabay.com* 24 January http://news.mongabay.com/2011/0123-coca_kirkland.html
- 2011 Pala, C. Coca Farming Linked To Deforestation In Colombia, *Chemical and Engineering News* 20 January DOI: 10.1021/CEN010411144514
- 2009 Kettles, N. How much rainforest does it take for one celebrity to snort another one under the table?. *The Ecologist* 39(4), 14-21.
- 2009 Kettles, N. Les people se droguent, les forets se meurent. *Courrier International* 9 March <http://tinyurl.com/4xsgfmd>
- 2008 Lingenhöhl, D. Kokain-Produktion zerstört den Regenwald. *Sueddeutsche.de* 3 July <http://tinyurl.com/4x98khh>
- 2008 Axt, B. Snort coke, shaft the environment, say boffins. *The Register* 30 March http://www.theregister.co.uk/2008/03/30/cocaine_environment_threat/
- 2006 Aldhous, P. Drugs, crime, and a conservation crisis. *New Scientist* (2567), 3.
- 2002 Rodríguez, J.P. and K.M. Rodríguez-Clark. Drug crops threaten Colombian birds. *Trends in Ecology and Evolution* 17(9), 406.
- 2002 Withgott, J. Of Drugs, Forests, and Birds. *Science Now* 31 July <http://tinyurl.com/n2oa7ze>
- 2002 Illicit crops and bird conservation priorities in Colombia. *news@nature.com* 2 August <http://www.nature.com/news/2002/020802/full/news020729-11.html>
- 2002 Gómez, A. And M. Lenis. Conocimiento sin fronteras. *La Tadeo* 67(1), 172-176. http://www.utadeo.edu.co/dependencias/publicaciones/tadeo_67/67172.pdf
- 2002 Hecht, J. Ecological hotspots named as latest casualties in Colombia's drugs war. *New Scientist* 175(2354), 10.
- 2000 Milius, S. When biologists get bombed. *Science News* 158(5), 78-79.
- 2000 Kaimowitz, D. More on war: the fight for Colombia's jungle. *POLEX* 14 September

- 1998 <http://tinyurl.com/6afsqtm>
Graham, W. Birds of Prey. *Outside Magazine* 01 September
- 1998 <http://www.outsideonline.com/1886376/birds-prey>
Pratt, T. From the Andes to Epcot, the adventures of an 8,000 year-old bean. *New York Times* 19 May <http://tinyurl.com/l7drwbj>

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–December 2019 Elected Council member, Society for Systematic Biology
- Summer 2016 Convener with Elizabeth Dumont and Karen Sears of the bat sensory symposium at the 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 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*, *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 th 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, <i>Molecular Phylogenetics and Evolution</i>
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	Society for Systematic Biology, Life Member
1998–present	North American Society for Bat Research
2014–2015,	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