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Liliana M. Dávalos

Recent Experience

- Fall 2008–
present **Stony Brook University, USA**
Assistant Professor (2008–2014), Associate Professor (2014–2018), Full Professor (2018–present):
Department of Ecology and Evolution, Consortium for Inter-Disciplinary Environmental Research
- Instructor and research lab leader
 - External fundraising for research: >\$6.2M, >\$3.2M as lead principal investigator
 - Internal team management: >10-person team of scientists ranging from undergraduate students to postdoctoral researchers
 - Generating, coordinating, and leading collaborations: successfully delivering global multi-discipline projects
- Fall 2021–
present **Quarterly Review of Biology**
Associate Editor (2013–2017), Editor (2017–2021), Editor-in-Chief (2021–present):
- Make first and last editorial decisions for all submissions
 - Provide editorial oversight across multiple disciplines in biology
 - Promote the highest standards in publication
 - Maintain relevance after 100 continuous years of publication
- 2020–2023 **Society for Systematic Biologists**
Awards Director
- Judging panel convener and organizer for three annual awards
 - Allocated \$150K in research awards based on scientific merit primarily to graduate students
 - Generated instructions and rubrics to improve chance from applicants from diverse backgrounds
 - Coordinated and conducted surveys in support for diversity, inclusion, and equity goals
- 2021–2022 **United Nations Office on Drug and Crime**
Consultant for the United Nations 2022 World Drug Report thematic chapter
- Study designer and data analyst
 - Analyzed literature on main deforestation drivers in the Amazon
 - Designed, interpreted, and visualized Bayesian geostatistical models
 - Coordinated and wrote the report
- 2007–
present **American Museum of Natural History, New York, USA**
Research Associate, Division of Vertebrate Zoology

Education

Current November 20, 2024

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) in Environmental Policy Studies
1998–2000	Columbia University, GSAS	MA (Feb) Ecology and Evolutionary Biology
1991–1997	Universidad del Valle	BSc (Oct) Biology with emphasis in Genetics

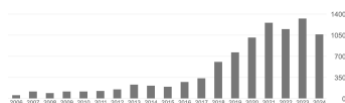
Current grant funding (percent of applications funded)

Pending	<i>"Adaptation to metabolic and genomic stressors in bats and cancers,"</i> MPI, National Institutes of Health, \$ 3,118,653 to SBU.
Pending	<i>"Biochemical and functional characterization of bat APOBECs in intrinsic and innate immunity to virus infections,"</i> Co-I, National Institutes of Health, \$548,761 to SBU, \$ total.
2023–2026	<i>"MCA: Diversification dynamics and comparative genomics of the birds of Madagascar,"</i> Partner, National Science Foundation, \$26,134 to SBU, \$317,738 total.
2023–2024	<i>"Estimating the Impact of Narcotrafficking on Amazon Forest Conversion and Land Grabbing,"</i> PI, Fulbright Amazonia, \$40,000 to awardee. (11%)
2022–2025	2217296: <i>"Collaborative Research: Integrated mechanisms of environment-host-virome interactions,"</i> PI, National Science Foundation, \$739,197 to SBU, \$2,134,953 total.
2022–2025	<i>"Co-evolution of viruses with host genome-editing enzymes in bats,"</i> PI, New Frontiers of Research Fund (NFRF), \$100,186 to SBU, CAD250,000 total.
2020–2025	2020577: <i>"Collaborative Research: AccelNet: Global Union of Bat Diversity Networks (GBatNet): Bats as a model for understanding global vertebrate diversification and sustainability,"</i> PI, National Science Foundation, \$185,025 to SBU, \$1,670,697 total. (8 funded)

Honors and Awards (Last 10 years)

2023	Glaser Visiting Professor , Florida International University Biology Department.
2022	Award for Excellence in Assessment, Stony Brook University Center for Excellence in Learning and Teaching Celebration of Teaching Awards
2021	Margolin Environmental Affairs Lecture , Middlebury College.
2016	Elected to the Council (3-year term), Society for Systematic Biology
2016	Stony Brook University College of Arts and Sciences Teaching Excellence Award for outstanding teaching and true caring for students in and outside of the classroom

Publications



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

H-index: 46, i10-index: 106, total cites: 9,468

Most cited paper: Thompson et al. 2017 (2424)

Most cited lead author paper: Reddy and Dávalos 2003 (525)

Peer-reviewed journal articles (109 published, 8 in process; SBU †undergraduate, ‡graduate, ◇postdoctoral trainee; °non SBU mentee)

- Submitted Song, J-H., Y. Zeng, **L.M. Dávalos**, T.M. MacCarthy, M. Larijani, M. Damaghi. Human and bats genome robustness under COSMIC mutational signatures. *Cell Systems*.
- Submitted Baldoni, C., K. Raptis, M. Farantouri, I. Lenzi, J. Lim, M. Menz, M. Muturi, M. Reisert, **M.A. Bedoya Duque†**, **W. Thomas♦**, **L. Dávalos**, J. Nieland, D. von Elverfeldt, D. Dechmann. Captivity alters behavior but not seasonal brain size change in semi-naturally housed shrews. *Royal Society Open Science*.
- In review Nesi, N., J.H.T. Potter, J.P. Walker, K.T.J. Davies°, **L.R. Yohe♦**, E.M. Rengifo, M.K.R. Sánchez, J., Salazar, M.A. Gouilh, B.K. Lim, B. Rodríguez Herrera, **L.M. Dávalos**, S.J. Rossiter. Phylogenetic Resolution of Neotropical Leaf-Nosed Bats with Implications for the Convergent Evolution of Diet. *Systematic Biology*.
- In revision **Dávalos, L.M.**, N.R. Magliocca. Coca and deforestation in Western Amazonia. *Ambio*.
- In revision Yohe, L.R.*, L.B. Miller, Z.A. Kaliszewska, S.R. Whitehead, S.E. Santana, and **L.M. Dávalos***. Testing for reciprocal trait influence in plant-frugivore interactions using generalized joint attribute modeling. *Ecology and Evolution*. biorXiv DOI: 10.1101/2024.01.17.576112
*Corresponding authors.
- In 3rd revision Morales, A.E., Y. Dong, T. Brown, K. Baid, D-G. Kontopoulos, V. Gonzalez, Z. Huang, A-W. Ahmed, L. Hilgers, S. Winkler, G. Hughes, X. Li, B.M. Kirilenko, P. Devanna, **T.M. Lama♦**, Y. Nissan, M. Pippel, **L.M. Dávalos**, S.C. Vernes, S.J. Puechmaille, S.J. Rossiter, Y. Yossi, J.B. Prescott, A. Kurth, D.A. Ray, B.K. Lim, E. Myers, E.C. Teeling, A. Banerjee, A.T. Irving, M. Hiller. Reference-quality bat genomes illuminate adaptations to viral tolerance and disease resistance. *Nature*. Research Square DOI: 10.21203/rs.3.rs-2557682/v1
- Accepted Halsey, M.K., E.K. Roberts, E.A. Wright, T.J. Soniat, L.L. Lindsay, D. Moreno-Santillan, R.M. Pitts, **L.M. Dávalos**, R.D. Bradley, R.D. Stevens, and D.A. Ray. Newly assembled pocket gopher genomes can facilitate conservation management of biodiversity. *Journal of Mammalogy*.
- Accepted **Bedoya Duque, M.A.†**, **W.R. Thomas†***, D.K.N. Dechmann, J.D. Nieland, C. Baldoni, D.v. Elverfeldt, M. Muturi, A.P. Corthals, **L.M. Dávalos***. Gene expression comparisons between captive and wild shrew brains reveal captivity effects. *Biology Letters*. biorXiv DOI: 10.1101/2023.10.02.560583 *Corresponding authors.
- 2024 **Thomas, W.R.†**, T. Richter, E.T. O'Neil, C. Baldoni, A.P. Corthals, D.v. Elverfeldt, J.D. Nieland, D.K.N. Dechmann, R. Hunter, **L.M. Dávalos**. Seasonal and comparative evidence of adaptive gene expression in mammalian brain size plasticity. *eLife* DOI: 10.7554/eLife.100788.1
- 2024 Fischer, C., M.C. Anzolini, **W.R. Thomas♦**, **L.M. Dávalos**, Y. León, J. Salazar, S. Rossiter, A. Moreira-Soto, J. Drexler. Discovery and biological confirmation of a highly divergent Tacaribe virus in metatranscriptomic data from Neotropical bats. *mSphere* XXX(X): X-X. DOI: 10.1128/msphere.00520-24
- 2024 Guevara Andino, J.E., **L.M. Dávalos***, F. Zapata*, M.J. Endara, D.D. Cotoras, J. Chaves, S. Claramunt, J. López-Delgado, A.M. Mendoza-Henao, D. Salazar-Valenzuela, J. Yeager. Neotropics as a cradle for adaptive radiations. *Cold Spring Harbor Perspectives in Biology*: a041452. DOI: 10.1101/cshperspect.a041452 *Equal contribution.
- 2024 Song, J-H, **L.M. Dávalos**, T. MacCarthy, M. Damaghi. Evolvability of cancer-associated genes under APOBEC3A/B selection. *iScience* 109433. DOI: 10.1016/j.isci.2024.109433
- 2023 Anthwal, N., R. Hall, F. de la Rosa Hernandez, M. Kroger, L. Yohe, B. Hedrick, K. Davies, G. Mutumi, C. Roseman, E. Dumont, **L.M. Dávalos**, S. Rossiter, A. Sadier, K. Sears. Cochlea development shapes bat sensory system evolution. *Anatomical Record* 2023: 1–12. DOI: 10.1002/ar.25353
- 2023 Weber, N., M. Nagy, W. Markotter, J. Schaer, S. Puechmaille, J. Sutton, **L.M. Dávalos**, M-C. Dusabe, B. Fenton, M. Knörnschild, A. López-Baucells, R. Medellín, M. Metz, S. Mubareka, T. O'Mara, O. Nsengimana, P. Racey, M. Tuttle, I. Twizeyimana, A. Vicente-Santos, M. Tschapka, C. Voigt, M. Wikelski, D. Dechmann, D. Reeder. Robust evidence for bats as reservoir hosts is lacking in most African virus studies - a review and call to optimize sampling and conserve bats. *Biology Letters* 19(11): 20230358. DOI: 10.1098/rsbl.2023.0358

- 2023 Castellanos, F.X.°, D. Moreno-Santillan*, G.M. Hughes, N.S. Paulat, **N. Sipperly†, A. Brown†, K. Martin†, M.C. Lim†**, A.L. Russell, **M.S. Moore**◊, M. Johnson, A.P. Corthals, D. Ray*, **L.M. Dávalos***. Evolution of antimicrobial peptides in Chiroptera. *Frontiers in Immunology* **14**:1250229. DOI: 10.3389/fimmu.2023.1250229 *Corresponding authors.
- 2023 **Delamonica, B., L. Dávalos**, M. Larijani, S. Anthony, T. MacCarthy. Evolutionary potential of the monkeypox genome arising from interactions with human APOBEC3 enzymes. *Virus Evolution* **9**(2): vead047. DOI: 10.1093/ve/vead047
- 2023 Baldoni, C.***, W. Thomas†***, D. Von Elverfeldt, M. Reisert, J. Làzaro, M. Muturi, **L.M. Dávalos**, J.D. Nieland, D.K.N. Dechmann. Histological and MRI brain atlas of the common shrew, *Sorex araneus*, with brain region specific gene expression profiles. *Frontiers in Neuroanatomy* **17**: 1662-5129. DOI: 10.3389/fnana.2023.1168523 *Joint first authors.
- 2023 Osmanski, A.B., N.S. Paulat, J. Korstian, J.R. Grimshaw, M. Halsey, K.A.M. Sullivan, D.D. Moreno-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* **380**(6643): eabn1430. DOI: 10.1126/science.abn1430
- 2023 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. *Molecular Biology and Evolution* **40**(5): msad092. DOI: 10.1093/molbev/msad092
- 2023 Barreto, E., **M. Lim†**, D. Rojas, **L.M. Dávalos**, A. Machac, C. Graham. Not all traits influence hummingbird diversification, but their evolutionary rates do. *Proceedings of the Royal Society B: Biological Sciences* **290**(1997): 20221793. DOI: 10.1098/rspb.2022.1793
- 2023 Mutumi, G.L.°, R.P. Hall, B.P. Hedrick, **L.R. Yohe**, A. Sadier, K.T.J. Davies, S.J. Rossiter, K.E. Sears, **L.M. Dávalos**, E.R. Dumont. Disentangling mechanical and sensory modules in the radiation of Noctilionoid bats. *American Naturalist* **202**(8): 216-230. DOI: 10.1086/725368
- 2023 Michielsen, N.M., S.M. Goodman, V. Soarimalala, A.A.E. van der Geer, **L.M. Dávalos**, G.I. Saville, N. Upham, L. Valente. The macroevolutionary impact of recent and imminent extinctions of mammals in Madagascar. *Nature Communications* **14**: 14. DOI: 10.1038/s41467-022-35215-3
- 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* **76**: 2347–2360. 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. Kutchhi, J.M. Costello, **L.M. Dávalos**, F. de Oliveira Roque, F. DeClerck, L. Dee, F. Essl, S. Ferrier, S. Hashimoto, C. Ifejika, F. Isbell, M. Kok, S. Lavery, D. Leclère, R. Loyola, S. Lwasa, M. McGeoch, A.S. Mori, E. Nicholson, J. Manuel, K. Öllerer, S. Polasky, C. Rondinini, O. Selomane, B. Strassburg, R. Sumaila, D.P. Tittensor, E. Turak, L. Urbina, M. Vallejos, E. Vázquez-Domínguez, P. Verburg, P. Visconti, S. Woodley, J. Xu, S. Jellesmark. Achieving global biodiversity goals by 2050 requires urgent and integrated actions. *One Earth* **5**(6): P597-603. DOI: 10.1016/j.oneear.2022.05.009
- 2022 Doronina, L*, G.M. Hughes*, D. Moreno-Santillan, C. Lawless, T. Loneragan, 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* **200**: 140-155. DOI: 10.1086/720154
- 2021 Porzecanski, A., A. Bravo, M. Groom, **L.M. Dávalos**, N. Bynum, B. Abraham, J. Cigliano, C. Griffiths, D. Stokes, E. Sterling. Using Case Studies to Improve the Critical Thinking Skills of Undergraduate Conservation Students. *Case Studies in the Environment* **5**(1): 1536396. DOI: 10.1525/cse.2021.1536396
- 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.*, R. Drinkwater, K.T.J. Davies, **M.C.W. Lim†**, **L.R. Yohe**◊, X. Zhang, H. Chi, I. Levantis, B.K. Lim, C.C. Witt, G. Tsagkogeorga, M. dos Reis, Y. Liu, W. Furey, M.J. Whitley, D. Aksentijevic, **L.M. Dávalos**, S.J. Rossiter*. Nectar-feeding bats and birds show parallel molecular adaptations in sugar metabolism enzymes. *Current Biology* **31**(20): 4667-4674. DOI: 10.1016/j.cub.2021.08.018 *Corresponding authors.
- 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.* , Z.A. Kaliszewska◊*, L.B. Leiser-Miller◊, **M.E. Lauterbur**◊, J.H. Arbour, **L.M. Dávalos**, J.A. Riffell. Fruit odorants mediate co-specialization in a multispecies plant-animal mutualism. *Proceedings of the Royal Society B: Biological Sciences* **288**: 28820210312. DOI: 10.1098/rspb.2021.0312 *Equal contribution.
- 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.**◊, L.B. Leiser-Miller, Z.A. Kaliszewska, **P. Donatt†**, 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.**◊, **T. Lama**◊, Y.G. Guerrero, **A. Brown†**, **P. Donatt†**, H. Zhao, S. Rossiter, **L.R. Yohe**◊, J. Potter, E.C. Teeling, S. Vernes, K.T.J. Davies, E. Myers, G. Hughes, Z. Huang, F. G. Hoffmann, A.P. Corthals, D. Ray*, **L.M. Dávalos***. Large-Scale Genome Sampling Reveals Unique Immunity and Metabolic Adaptations in Bats. *Molecular Ecology* **30**(23): 6449-6467. DOI: 10.1111/MEC.16027 *Corresponding authors.
- 2021 Hall, R.P., G. Mutumi, B.P. Hedrick, **L.R. Yohe**◊, A. Sadier, K.T.J. Davies, S.J. Rossiter, K. Sears, **L.M. Dávalos**, E.R. Dumont. Find the Food First: An Omnivorous Sensory Morphotype

- Predates Biomechanical Specialization for Plant Based Diets in Phyllostomid Bats. *Evolution* **75**(11): 2791-2801. DOI: 10.1111/evo.14270
- 2021 Murillo-Sandoval, P., E. Gjerdsseth, 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.*, 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.M. Dávalos**. Pervasive genomic signatures of local adaptation to altitude across highland specialist Andean hummingbird populations. *Journal of Heredity* **112**(3): 229-240. DOI: 10.1093/jhered/esab008
- 2021 Potter, J.H.T., K.T.J. Davies, **L.R. Yohe**◊, 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. Jermini, 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. Puechmaile, 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.M. 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
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- 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.
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- 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. Tettey, F. V. Laenen, and A. Vella. The world drug problem and sustainable development. Pp. 63-94 in *World Drug Report 2016*. UNODC (ed). 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. Pp. 218-225 in *State of the Wild 2008-2009: A global portrait of wildlife, wildlands, and oceans*. Fearn, E. (ed.). Washington, D.C.: Island Press.
- 2005 **Dávalos, L.M.** Bats of Puerto Rico. *Caribbean Journal of Science* 41(4), 882-883.
- 2005 **Álvarez, M.D.** Guerrillas in the midst. *Conservation Biology* 19(6), 2040-2043.
- 2005 **Álvarez, M.D.** Colombia: the many faces of the war. *ETFRN Newsletter* 43/44, 63-65
- 2004 **Dávalos, L.M.** and R. Eriksson. *Epicrates subflavus* (Jamaican Boa). Foraging behavior. *Herpetological Review* 35(1), 66.
- 2001 **Álvarez, M.D.** Serranía de San Lucas, Sur de Bolívar: ¿Habrà futuro?. *ACODAL* 194, 13-17.
- 2001 **Álvarez, M.D.** Daños ambientales por cultivos ilícitos y procesamiento de drogas prohibidas en Colombia. *ACODAL* 193, 7-16.

- 2001 **Álvarez, M.D.** Forests under fire. *North American Congress on Latin America [NACLA] Report on the Americas* 35(1), 29-34.
- 2000 **Dávalos, L.M.** La perspectiva ambiental en la mesa de diálogo. *El Tiempo* (Bogotá) 1 September 2000.
- 2000 **Dávalos, L.M.** El Futuro de los bosques de Colombia: ¿será la paz peor que la guerra? *El Tiempo* (Bogotá) 21 August 2000.
- 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. *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.relcomlatinoamerica.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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- 23 October, 2024 **Dávalos, L.M.** *Conservation journey of the Jamaican flower bat*. How Bat Conservation Contributes to Global Biodiversity and Sustainable Development Goals. United Nations Biodiversity Conference - COP 16, Cali, Colombia.
- 25 July, 2024 **Dávalos, L.M.**, A.M. Brown. *All mammals go deaf, what about bats?* Lin-fa Wang and Paratus Symposium, New York City, New York.
- 24 June, 2024 **Dávalos, L.M.** *Extreme aging and its opposite in mammals*. Thalion Workshop, Boston, Massachusetts.

- 15 April, 2024 **Dávalos, L.M.** *Conservation and OneHealth: examples from the field*. Keynote presentation at MENTOR-Bat workshop, Chinchiná, Colombia.
- 14 March, 2024 **Dávalos, L.M.** *¿Ecología o estructura? Lecciones de una superfamilia hiperdiversa*. Simposio de bases anatómicas de la diversidad en mamíferos. V Congreso Colombiano de Mastozoología, Yopal, Colombia, Via Zoom.
- 26 January, 2024 **Dávalos, L.M.** *Opening the Genome Frontier and the Future of Bat Diversity v.2*. BINF Seminar. University of North Carolina, Charlotte, NC, Via Zoom.
- 17 November, 2023 **Dávalos, L.M.** *Abriendo la Frontera Genómica y el Futuro de la Diversidad v.2*. Facultad de Ciencias Naturales. Universidad del Rosario, Bogotá, Colombia.
- 9 November, 2023 **Dávalos, L.M.** *Abriendo la Frontera Genómica y el Futuro de la Diversidad*. Seminario de Investigación. Universidad Nacional de Colombia, sede Leticia, Colombia.
- 26 October, 2023 **Dávalos, L.M.** *Tendencias actuales en deforestación*. Panel temático: Deforestación y Restauración. II Simposio Universidades y Amazonía. Universidad Javeriana, Bogotá, Colombia.
- 12 September, 2023 **Dávalos, L.M.** *Noctilionoid Bats are a Unique Mammalian Radiation, Here's Why*. Linnaean Society of New York, Via Zoom
- 17 March, 2023 **Dávalos, L.M.** *Three Proposals for Protecting Forests in the Amazon-Andes*. Glaser Seminar Series. Florida International University, Miami, Florida.
- 16 March, 2023 **Dávalos, L.M.** *Opening the Genome Frontier and the Future of Bat Diversity*. Glaser Seminar Series. Florida International University, Miami, Florida.
- 15 March, 2023 **Dávalos, L.M.** *Forests, bats, guerrillas: A systems approach for thought and action in the Anthropocene*. Glaser Seminar Series. Florida International University, Miami, Florida.
- 15 March, 2023 **Dávalos, L.M.** *Forests Frontier Dynamics and Deforestation in the Amazon-Andes*. Glaser Seminar Series. Florida International University, Miami, Florida.
- 14 March, 2023 **Dávalos, L.M.** *How different are bats from non-bats? Insights from the age of -omes*. Glaser Seminar Series. Florida International University, Miami, Florida.
- 13 March, 2023 **Dávalos, L.M.** *Sensing in the dark: molecular ecology* of #BatSenses*. Glaser Seminar Series. Florida International University, Miami, Florida.
- 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 Latin American 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.

Conference Presentations (Last 3 years)

- 24 October, 2024 **L.M. Dávalos.** *Control criminal limita opciones en bosques Amazónicos.* Simpósio: Desafios Amazónicos no Contexto das Mudanças Climáticas e o Papel da Governança, V Congresso Latino-Americano sobre Conflitos Ambientais. Via Zoom.
- 15 July, 2023 Michielsen, N.M., S.M. Goodman, V. Soarimalala, A.A.E. van der Geer, **L.M. Dávalos**, G.I. Saville, N. Upham, L. Valente. *The macroevolutionary impact of recent and imminent mammal extinctions on Madagascar.* 13th International Mammalogical Meeting. Via Zoom.
- 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.

University Teaching

Undergraduate courses taught at SUNY Stony Brook

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|------------------------|--|
| 1.5 credits/instructor | Global, Cultural, and Environmental Issues, GLI 320 offered Spring 2021, Fall 2022 |
| 4.0 credits | Statistics and Data Analysis: A Conceptual Approach, BIO 211, offered every semester Fall 2017–Fall 2018 |
| 3.0 credits | Conservation Biology, BIO 336/BEE572 offered first Spring 2010, every Fall 2010–2019, Spring 2022, Fall 2022 |
| 1.5 credits/instructor | General Ecology, BIO113 (con-instructor with D. Padilla) 2010 |

Undergraduate Research Supervising (molecular and bioinformatics lab) and Mentoring

- | | |
|-------------------------|------------------------------|
| Spring 2022–Summer 2023 | Maria Alejandra Bedoya Duque |
| Spring 2020–Winter 2023 | 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

2.0 credits	Seminar Ethics of Genetics and Genomics, BEE 690 (2023)
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 (with J. Gurevitch) offered every Fall 2011–2016
3.0 credits	Conservation Biology, BEE 572 offered Fall 2010–present
1.0 credit	Seminar on the evolutionary consequences of anthropogenic activities, BEE 692 (with W. Aguirre) 2009

Dissertation and other advising

Joined lab Fall 2023	Kaylee Johnson, SBU–Ecology and Evolution
Joined lab Spring 2021	Nicolette Sipperly, SBU–Ecology and Evolution
Joined PhD Fall 2019	Alexis Brown, SBU–Ecology and Evolution
Joined PhD Fall 2012	Fanny Cornejo, SBU–Anthropology (co–advised with P. Wright)
E&E PhD, Spring 2024	Paul Donat, SBU–Ecology and Evolution
MSc, Spring 2024	Nathan Michielsen, University of Amsterdam–Biological Sciences
E&E PhD, Fall 2023	William Thomas, SBU–Ecology and Evolution
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), Jose Moscoso Nuñez (SBU–E&E, graduated Spring 2024), 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 graduated Fall 2022), Imogene Welles (SBU–E&E), Nicolas Wiggengauser (SBU–IDPAS), Megan Wyatt (SBU–E&E)

Postdoctoral supervising (where they are now)

Fall 2023–present	Dr. William Thomas ()
Summer 2023–present	Dr. Kristen Rayfield ()
Fall 2020–Summer 2023	Dr. Tanya Lama (Assistant Professor at Smith College)
Summer 2019	Dr. M. Elise Lauterbur (NSF postdoctoral fellow at University of Arizona)
Summer 2017–Spring 2018	Dr. Laurel R. Yohe (Assistant Professor at University of North Carolina, Charlotte)
Spring 2013–Fall 2016	Dr. Danny Rojas (Associate Professor at Universidad Javeriana, Cali, Colombia)
Fall 2013–Summer 2015	Dr. Marianne S. Moore (Assistant Professor at the University of the Virgin Islands)

Lab rotation

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

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

Department Service

Fall 2022–Spring 2023	Member, Graduate Program executive committee
Fall 2021– Spring 2023	Lead, awards and advancement committee
Fall 2021– Spring 2023	Lead, newsletter, and communications committee
Summer 2020–Spring 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	Ma program executive committee.
Fall 2012–Spring 2013	Ecology and Evolution Chair search committee
Summer 2012	Department representative at Howard Hughes Medical Institute and the National Academies Summer Institutes for Undergraduate Education
Spring 2012	Chair of PhD admissions committee
Fall 2011	Member faculty search committee, human genomics/genetics hire for Human Evolution UG major
Fall 2010–Spring 2011	ESAC (second year student advisory committee)
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

Fall 2021–present	Founding member, Collaborative for the Earth initiative
Fall 2022–Spring 2023	Member, Dean of College of Business search committee
Fall 2022–Spring 2023	Co-lead, AI Ethics SBU IDEA fellowship
Spring 2022–present	Member, Governor's Island Research Steering Group
Spring 2022–Fall 2022	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 Tiger Team
Spring 2021	Research & Innovation Task force member
Spring 2021	Strategic Research Growth Working Group member
Fall 2019–Spring 2020	Member search committee SOMAS ecologist hire
Fall 2019	INSPIRES summary panelist
Spring 2019	Member Dean's committee on Global Environment/Energy and Natural Resources
Spring 2017	Lab selected for Stony Brook University promotional video "The Future is Now" https://www.youtube.com/watch?v=J1Zg7_QT1zY

Spring 2016–Spring 2017	Diversity Working Group
Fall 2016–Spring 2017	Member search committee joint GHI–E&E hire
Spring 2014	Tinker Grant Committee
Fall 2013	Interviewer of Global Health Initiative Director
Fall 2013	Globalization initiative writing committee member
Spring 2013	University–wide STEM committee
Spring 2013	Co–organizer with P. Gootenberg of Coca at the Crossroads Symposium (http://tinyurl.com/kxgzuyr), 3 April.
Spring 2013	Member STEM education initiative
Spring 2011	Chair in Panel 3: On Sustainability: Experiences, Essays, Programs in Stony Brook University Latin American & Caribbean Studies Center 10th Annual Graduate Conference 8 April
Fall 2010–present	Co–organizer Latin American and Caribbean Studies Center Seminar Series
Spring 2010	Panel discussion of Communicating Science workshop 14 May
Spring 2010	Tinker Grant Committee
Fall 2008–2010	Member Steering Committee, SBU–BNL Center for Impacts of Regional Climate Change

Service to the Community

Summer 2014	Mentoring research of Alessondra Bruno, Courtney Cheng, Samantha DeRosa, Cameron Morales, and Yasin Perez, Long Island High School students
Fall 2012–Spring 2013	Mentoring research of volunteer and SBU UG graduate Brandon Baird
Fall 2012	Mentoring research of Syracuse UG student Jonah Rothleder
Summer 2013	Mentoring research of Gabrielle Donnelly, Samuel Gochman, Edward LI, Cameron Morales, and Yasin Perez, Long Island High School students
Summer 2012	Mentoring research of Elodia Caballero (admitted at Columbia University), Johana Peña, Zachary Rowe (admitted at Stony Brook University), and Nancy Wei (admitted at Northwestern University), Long Island High School students
Summer 2011	Mentoring research of Alexander Legakis (admitted at Cornell University), Long Island High School student
Summer 2010	Mentoring research of Bonnie Lei (admitted at Harvard University), southern California High School student, Siemens Regional Finalist 2010, Finalist Intel Science Talent Search 2011, 2 nd Grand Award Animal Sciences category at Intel International Science and Engineering Fair 2011
Summer 2010	Mentoring research of Laura Barger (admitted at University of Pennsylvania), Long Island High School student
Summer 2009–Summer 2010	Mentoring research of Peter Connell (admitted at SUNY College of Environmental Science and Forestry), Long Island High School student, semifinalist at the Long Island Junior Science and Humanities Symposium, NOAA "Taking the Pulse of the Planet" award at NYSSEF 2011
Spring 2010–Spring 2012	Mentoring research of volunteer Mark Hall
Fall 2009–Spring 2010	Mentoring research of Kendra Cornejo, High School student, Intel Science Talent Search Semifinalist 2011 (at Gurevitch lab)
Fall 2008–Fall 2009	Mentoring research of volunteer and SBU UG graduate Elizabeth Simola

Past Experience

- 2015–2016 United Nations Office on Drug and Crime
 Consultant for the United Nations 2016 World Drug Report thematic chapter on environmental sustainability
- Reviewed environmental impact of illegal drugs worldwide
 - Analyzed new data identifying 1960s/70s development projects as coca and deforestation nuclei
 - Helped shift official policy toward considering social sustainability in development projects
- 2007–2008 Open University, Milton Keynes, UK
 Lecturer (US equivalent: Assistant Professor): Molecular Ecology
- Generated exercises in evolutionary biology for non-traditional, distance learners
- 2005–2006 Columbia University, New York, USA
 Instructor, Department of Ecology, Evolution, and Environmental Biology (E3B)
- Co-designed and co-taught adult learner course: Evolution: from Darwin to DNA
- 2005–2006 American Museum of Natural History, New York, USA
 Postdoctoral Research Associate, PI: Susan L. Perkins
- Generated and aligned genome-based orthologs from malaria parasites
 - Discovered and mitigated sources of systematic error in malaria parasite phylogenomics
- 2004–2005 University of Arizona, Tucson, USA
 Postdoctoral Research Associate, PI: Howard Ochman
- Co-designed and implemented strategies for finding prokaryotic pseudogenes
 - Discovered the largest set of *E. coli* pseudogenes ever reported
 - Upended conventional wisdom that prokaryotes lack pseudogenes
- 1998–2004 Columbia University and American Museum of Natural History, New York, USA
 Graduate Fellow in Ecology, Evolution and Environmental Biology, PI: Nancy B. Simmons
- Collected and analyzed data leading to 17 peer-reviewed publications, most single-author
 - Organized and led field expeditions throughout Latin America, including the Caribbean islands
 - Assisted teaching and evaluation of undergraduate-level lecture and field courses
- 1997–1998 Colombia '98 Expedition
 Field Researcher
- Organized, raised funds, and conducted field ornithology survey at Serranía de los Churumbelos, site declared National Natural Park Serranía de los Churumbelos on 30 August 2007 partly based on this expedition
 - First biologist to visit the Serranía de San Lucas in 50 years, site proposed as National Natural Park Serranía de San Lucas in 2010 partly based on this reconnaissance survey
 - Research assistant for “Avifauna of Tambito and Munchique”, endorsed by the Cambridge Expedition Committee and Museo de Historia Natural (Universidad del Cauca), Popayán

- 1996–1997 Biotechnology Research Unit, Centro Internacional de Agricultura Tropical (CIAT), Cali, Colombia
Undergraduate fellow
- Generated rice breeding segregating cross to discover molecular markers of virus resistance
 - Conducted DNA extractions and restricted fragment polymorphism analyses
- 1994–1996 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)

- 2023 Dahl, M.H. As Colombia's coca economy crashes, new opportunities — and threats — arise. *Mongabay* 15 November <https://news.mongabay.com/2023/11/as-colombias-coca-economy-crashes-new-opportunities-and-threats-arise/>
- 2023 Steffens, G. Colombia's forests, silent victims of the war on drugs. *El País* 24 June <https://english.elpais.com/international/2023-06-24/colombias-forests-silent-victims-of-the-war-on-drugs.html>
- 2023 Paz, A. 3 million hectares of Colombian Amazon deforested for illegal pasture: Study. *Mongabay* 19 May 2023 <https://news.mongabay.com/2023/05/3-million-hectares-of-colombian-amazon-deforested-for-illegal-pasture-study/>
- 2023 Adepoju, P. The deep evolutionary impact of Madagascar's imminent extinction wave. *Nature* 10 January 2023 <https://www.nature.com/articles/d44148-023-00003-8>
- 2023 Romero, S. La fauna de Madagascar se enfrenta a una ola inminente de extinción. *Muy Interesante* 11 January <https://www.muyinteresante.es/actualidad/59252.html>
- 2022 Paz, A. Las deudas ambientales de Colombia en 2022: asesinatos de líderes, deforestación y violencia que ingresa en áreas protegidas y resguardos indígenas. *Mongabay LatAm* 13 December <https://tinyurl.com/y54rvd7b>
- 2022 Verberckmoes, Y. Belgische topwetenschapper: 'Als je je naam zou veranderen in een 'genderneutrale' variant, heb je meer kans op een publicatie.' *De Morgen* 7 December <https://tinyurl.com/3pbcnecs>
- 2022 Tarazona, D, J. Parra. Artemisa: radiografía de una operación gubernamental que no frenó la deforestación en Colombia. *Mongabay LatAm* 5 December <https://tinyurl.com/yc6wrx6r>
- 2022 Paz, A. Un posconflicto marcado por la deforestación: el panorama de los bosques amenazados en Colombia. *Mongabay LatAm* 1 December <https://tinyurl.com/5t4fyvja>
- 2022 Grandoni, D. Why this mammal eats its own brain — and why it could matter for you. *Washington Post* 30 November <https://www.washingtonpost.com/climate-environment/2022/11/30/shrews-shrink-regrow-own-brains/>
- 2022 Tarazona, D. Colombia: en 2021 la superficie con cultivos de coca en parques naturales superó las 8 mil hectáreas. *Mongabay LatAm* 8 November <https://tinyurl.com/y5eusjn5>
- 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 Cerullo, G. Drivers of Colombia's peacetime deforestation weave a complex web. *Mongabay* 20 May <https://tinyurl.com/38hudtbj>
- 2022 Mowbray, S. All coked up: The global environmental impacts of cocaine. *Mongabay* 4 April <https://news.mongabay.com/2022/04/all-coked-up-the-global-environmental-impacts-of-cocaine/>
- 2022 Cornwall, W. How a disappearing ear bone turned bats into masters of echolocation. *Science* 26 January <https://tinyurl.com/bdct29d9>
- 2022 Mouterde, P. Pour protéger la biodiversité, des scientifiques appellent à des changements majeurs. *Le Monde* 19 January <https://tinyurl.com/yckh2v7n>
- 2022 Anonymous. Biodiversity faces its make-or-break year, and research will be key. *Nature* 19 January <https://www.nature.com/articles/d41586-022-00110-w>
- 2021 Bustamante Hernández, N. To change policies, insert yourself in them': Q&A with biologist Liliana Dávalos. *Mongabay* 29 October <https://news.mongabay.com/2021/10/to-change-policies-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 <https://www.twis.org/16-june-2021-episode-829-why-are-bats-disease-vectors/>
- 2020 Cummins, E. Bats, museums, and viruses collide: a scientific love story. *National Geographic* 4 December <https://www.nationalgeographic.com/science/2020/12/bat-scientist-and-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-contr-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://tinyurl.com/uf6snb62>
- 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/y797wtjq>
- 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/ywbxw/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/zjqcboy>
- 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>

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- 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>
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- 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/>
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- 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/knzwxv6>
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Professional Service

2021–present	Editor in Chief, <i>Quarterly Review of Biology</i>
2019–present	Bat Conservation International (BCI) Science Advisory Board member
2019–present	Associate Editor, <i>Systematic Biology</i>
2020–2023	Awards Director, Society for Systematic Biologists
Spring 2023	NSF Division of Environmental Biology Panelist
22–23 March, 2023	Panelist, Conservation X Labs <i>Fire Grand Challenge</i> .
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, <i>Quarterly Review of Biology</i>
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, <i>Mastozoología Neotropical</i>
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 17 th 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, <i>Molecular Phylogenetics and Evolution</i>
2011	Judge of oral presentations at the North American Symposium for Bat Research, Toronto, Ontario.
2007–present	Collaboration with the Illicit Crop Monitoring System of Colombia (SIMCI), sponsored by the United Nations Office on Drug and Crime; advising monitoring bodies in Peru and Bolivia through SIMCI
2006–present	Ad hoc grant reviewer for the <i>Agence Nationale de la Recherche</i> (France), Biotechnology and Biological Sciences Research Council (BBSRC, UK), <i>Consejo Nacional de Ciencia y Tecnología</i> (CONACYT, Mexico), National Geographic Society, and the National Science Foundation (NSF) of the United States.
2004–present	Ad hoc reviewer in Evolutionary Biology: <i>Acta Chiropterologica</i> , <i>Axios</i> reviews, <i>The American Naturalist</i> , <i>Biological Journal of the Linnean Society</i> , <i>BMC Ecology and Evolution</i> , <i>BMC Evolutionary Biology</i> , <i>BMC Genomics</i> , <i>Canadian Journal of Zoology</i> , <i>Communications Biology</i> , <i>Ecography</i> , <i>Evolution</i> , <i>FEBS Letters</i> , <i>Frontiers in Ecology and Evolution</i> , <i>Frontiers in Zoology</i> , <i>Gene</i> , <i>Genetica</i> , <i>Genome Biology and Evolution</i> , <i>Journal of Biogeography</i> , <i>Journal of Field Ornithology</i> , <i>Journal of Heredity</i> , <i>Journal of Mammalian Evolution</i> , <i>Journal of Mammalogy</i> , <i>Journal of Parasitology</i> , <i>Methods in Ecology and Evolution</i> , <i>MicrobiologyOpen</i> , <i>Molecular Biology and Evolution</i> , <i>Molecular Ecology</i> , <i>Nature Ecology and Evolution</i> , <i>Molecular Ecology Notes</i> (currently <i>Mol. Ecol. Resources</i>), <i>Molecular Phylogenetics and Evolution</i> , <i>Nature Ecology and Evolution</i> , <i>Notes and Records: the Royal Society</i> , <i>PeerJ</i> , <i>Philippine Journal of Science</i> , <i>PLoS One</i> , <i>Proceedings of the Biological Society of Washington</i> , <i>Proceedings of the Royal Society B: Biological Sciences</i> , <i>Quaternary Science Reviews</i> , <i>Scientific Publications of the American Museum of Natural History</i> , <i>Scientific Reports</i> , <i>Systematic Biology</i> , <i>Trends in Ecology and Evolution</i> , <i>University of Chicago Press</i> , <i>Zootaxa</i> . Ad hoc reviewer in Ecology: <i>Actualidades Biológicas</i> , <i>Caribbean Journal of Science</i> , <i>Chiroptera Neotropical</i> , <i>Diversity and Distributions</i> , <i>Environmental Science & Technology</i> , <i>Emu</i> , <i>Ornitología Neotropical</i> , <i>Quarterly Review of Biology</i> . Ad hoc reviewer in Conservation Biology: <i>Animal Biodiversity and Conservation</i> , <i>Biodiversity and Conservation</i> , <i>Biological Conservation</i> , <i>Conservation Biology</i> , <i>Ecosphere</i> , <i>Ecosystems</i> , <i>Environmental Science & Technology</i> , <i>Science</i> . Ad hoc reviewer in Environmental Humanities: <i>Forest Policy and Economics</i> , <i>Journal of Peasant Studies</i> , <i>Landscape and Urban Planning</i> , and <i>Landscape Ecology</i> , <i>Journal of World Systems Research</i> .

Summer 2010	Convener with Nancy Simmons of the bat extinction symposium at the 15 th International Bat Research Congress (Prague, Czech Republic)
2009	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 Biologists, Life Member
1998–present	North American Society for Bat Research
2014–2015, 2018–2022	Society for the Study of Evolution
2012–2016	International Biogeography Society
2017–2018	Society for Conservation Biology
2005–2006	American Society of Mammalogy