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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">Diversification in species & traits / Genomes & –omes / Tropical deforestation & how to stop it
2015–2016	<u>Consultant for the United Nations 2016 World Drug Report</u> thematic chapter on environmental sustainability
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
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	2220859: “ <i>EDGE FGT: Senescence as a paradigm to link genotype to phenotype</i> ” co-PI, National Science Foundation, \$412,560 to SBU, \$3,109,608 total.
Pending	2217296: “ <i>Collaborative Research: Integrated mechanisms of environment-host-virome interactions</i> ” PI, National Science Foundation, \$739,197 to SBU, \$2,134,953 total.
Pending	2627864: “ <i>BBSRC/NSF: A comparative and mechanistic study of the bat inflammasome</i> ” PI, National Science Foundation, \$592,861 to SBU, £1,490,542 total.
Pending	2217797: “ <i>Collaborative Research: Evolution of regulatory diversity via transposable element activity</i> ” PI, National Science Foundation, \$347,044 to SBU, \$1,711,888 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)
2020–2022	2032063: “ <i>RAPID: Collaborative Research: Bat goblet cells as immuno-hotspots for infection of coronavirus</i> ” PI, National Science Foundation, \$59,204 to SBU, \$194,959 total. (~2.7%)
2020–2022	2031906: “ <i>RAPID: Collaborative Research: Immunological adaptations in bats to moderate the</i>

Current March 12, 2022

- effect of coronavirus infection" co-PI, National Science Foundation, \$73,574 to SBU, \$200,000 total. (~2.7%)
- 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%)
- 2016–2022 1633299: "NRT–DESE: Interdisciplinary Graduate Training to Understand and Inform Decision Processes Using Advanced Spatial Data" co-PI, National Science Foundation, \$2,994,707 total. (8%)

Honors and Awards (Last 10 years)

- 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: 36, i10-index: 78, total cites: 5,952
Most cited paper: Thompson et al. 2017 (1303)
Most cited lead author paper: Reddy and Dávalos 2003 (439)

Peer-reviewed journal articles (88 published, 9 in process; SBU †undergraduate, ‡graduate, ◇postdoctoral trainee; non SBU °mentee)

- Submitted 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. EcoEvoRxiv* DOI: 10.32942/osf.io/hy7a2
- Submitted 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*.
- Submitted 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*.
- In Review 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. *Science*.
- In Review **Yohe, L.R.◇**, M. Fabbri, D. Lee, K. Davies, T.P. Yohe, M. K. R. Sanchez, E. Rengifo, R. Hall, G. Mutumi, B.P. Hedrick, A. Sadier, N.B. Simmons, K.E. Sears, E. Dumont, S. Rossiter, B.-A.

- Bhullar, and **L.M. Dávalos**. 2021. Ecological Constraints on Highly Evolvable Olfactory Receptor Genes and Morphology. *Evolution. bioRxiv* DOI: 2021.09.06.459178
- In Review 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. *Proceedings of the National Academies of Science*.
- In 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*.
- In Revision Balk, M., J. Deck, K.F. Emery, R.L Walls, D. Reuter, R. LaFrance, J. Arroyo-Cabrales, P. Barret, J. Blois, A. Boileau, L. Brenskelle, N.R. Cannarozzi, J.A. Cruz, **L.M. Dávalos**, M. Hantak, S. Hopkins, B. Kohli, J.N. King, M. Koo, M. Lawing, H. Machado, S.S. McCrane, B. McLean, M. Morgan, S. Pilaar-Birch, D. Reed, E.J. Reitz, N. de la Sancha, N. Sewnath, N.S. Upham, A. Villaseñor, **L. Yohe**°, R.P. Guralnick, E.B. Davis. Best practices for aggregating and reporting individual traits. *iScience*.
- In 2nd Revision 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*.
- 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. Leventis, 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.^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. 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.*^o, **L. Yohe**^o, 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^o, 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^o, D. Munteanu, A. Sadier^o, K. Davies^o, 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^o, 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^o, Y.M. León, B. Lei^o, 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., Clauset, A., Stevens, R.L., Shade, A., Pollard, K.S., Goodwin, K.D., Jansson, J.K., Gilbert, J.A., Knight, R., The Earth Microbiome Project Consortium*. A communal catalogue reveals Earth's multiscale microbial diversity. *Nature* 551, 457-463. DOI: 10.1038/nature24621 * As part of this massive consortium.
- 2017 **Mets, K.D.**‡, D. Armenteras, **L.M. Dávalos**. Spatial autocorrelation reduces model precision and predictive power in deforestation analyses. *Ecosphere* 8(5), e01824. DOI: 10.1002/ecs2.1824
- 2017 Armenteras, D., C. Gibbes, J. Anaya, **L.M. Dávalos**. Integrating remotely sensed fires for predicting deforestation for REDD+. *Ecological Applications* 27(4), 1294-1304. DOI: 10.1002/eap.1522
- 2017 **Yohe, L.R.**‡, **R. Abubakar**‡, **C. Giordano**‡, E. Dumont, K. Sears, S. Rossiter, **L.M. Dávalos**. *Trpc2* pseudogenization dynamics in bats reveal ancestral vomeronasal signaling, then pervasive loss. *Evolution* 71(4), 923-935. DOI: 10.1111/evo.13187

- 2017 Valente, L., R. Etienne, **L.M. Dávalos***. Recent extinctions disturb path to equilibrium diversity in the Caribbean. *Nature Ecology and Evolution* 1, 0026. *Corresponding author. DOI: 10.1038/s41559-016-0026
- 2016 **Dávalos, L.M., K.M. Sanchez°**, D. Armenteras. Deforestation and Coca Cultivation Rooted in 20th-Century Development Projects. *Bioscience* 66(11), 974-982. DOI: 10.1093/biosci/biw118
- 2016 Nuñez-Novas, M.S.°, Y.M. León, J. Mateo, **L.M. Dávalos**. Records of the cave-dwelling bats (Mammalia: Chiroptera) of Hispaniola with an examination of seasonal variation in diversity. *Acta Chiropterologica* 18(1), 269-278. DOI: 10.3161/15081109ACC2016.18.1.016
- 2016 **Herrera, J.‡, L.M. Dávalos**. Phylogeny and divergence times of lemurs inferred with recent and ancient fossils in the tree. *Systematic Biology* 65(5), 772-791. DOI: 10.1093/sysbio/syw035
- 2016 **Rojas, D.◊, O.M. Warsi‡, L.M. Dávalos**. Bats (Chiroptera: Noctilionoidea) challenge recent origin of extant neotropical diversity. *Systematic Biology* 65(3), 432-448. DOI: 10.1093/sysbio/syw011
Erratum: DOI: 10.1093/sysbio/syw118
- 2015 **Yohe, L.R.‡, P.M. Velazco°, D. Rojas◊, B.E. Gerstner†, N.B. Simmons, L.M. Dávalos**. Bayesian hierarchical models suggest oldest known plant-visiting bat was omnivorous. *Biology Letters* 11(11), 1-5. DOI: 10.1098/rsbl.2015.0501
- 2015 Chadid, M.A.°, **L.M. Dávalos**, J. Molina, D. Armenteras. A Bayesian Spatial Model Highlights Distinct Dynamics in Deforestation from Coca and Pastures in an Andean Biodiversity Hotspot. *Forests* 2015(6), 3828-3846. DOI: 10.3390/f6113828
- 2015 **Dahan, R.A.*‡, R.P. Duncan°, A.C.C. Wilson, L.M. Dávalos***. Expansion of amino acid transporters is associated with the evolution of obligate endosymbiosis in sap-feeding insects (Hemiptera: Sternorrhyncha). *BMC Evolutionary Biology* 15, 52. *Corresponding authors. DOI: 10.1186/s12862-015-0315-3
- 2015 Corthals, A.P., A. Martin°, **O.M. Warsi‡**, M. Woller-Skar, W. Lancaster, A. Russell, **L.M. Dávalos**. From the field to the lab: Best practices for field Preservation of Bat Specimens for Molecular Analyses. *PLoS One* 10(3), e0118994. DOI: 10.1371/journal.pone.0118994
- 2014 Núñez-Novas, M.S.°, Y.M. León, J. Mateo, and **L.M. Dávalos**. 2014. Horas de éxodo y estacionalidad en los murciélagos en cuatro cuevas de la República Dominicana. *Novitates Caribaeae* 2014(7), 83-94.
- 2014 **Dávalos, L.M.***, A.L. Russell*. Sex-biased dispersal produces high error rates in mitochondrial distance-based and tree-based species delimitation. *Journal of Mammalogy* 95(4), 781-791. *Equal contribution. DOI: 10.1644/14-MAMM-A-107
- 2014 Davies, K.T.J.°, G. Tsagkogeorga, N.C. Bennett, **L.M. Dávalos**, C.G. Faulkes, S.J. Rossiter. Molecular evolution of growth hormone and insulin-like growth factor 1 receptors in long-lived, small-bodied mammals. *Gene* 549(2014), 228-236. DOI: 10.1016/j.gene.2014.07.061
- 2014 **Dávalos, L.M.**, P. Velazco°, **O. Warsi‡**, P. Smits°, N.B. Simmons. Integrating Incomplete Fossils by Isolating Conflicting Signal in Saturated and Non-Independent Morphological Characters. *Systematic Biology* 63(4), 582-600. DOI: 10.1093/sysbio/syu022
- 2014 Dumont, E.R.*°, K. Samavedam, I. Grosse, **O.M. Warsi‡, B. Baird†, L.M. Dávalos***. Selection for mechanical advantage underlies multiple cranial optima in New World leaf-nosed bats. *Evolution* 68(5), 1436-1449. *Equal contribution. DOI: 10.1111/evo.12358
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- 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.
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Editor-reviewed contributions (21 published)

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- 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
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- 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
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- 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/ybntztj5>
- 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.

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- 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.
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Invited Talks (Last 3 years)

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- 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.
- 29 August 2019 **Dávalos, L.M.** & the Bat1K Team. [The Genomics of Why There are So Many Species of Bats](#). Genome 10K Annual Meeting. Rockefeller University, New York, New York.
- 6 August 2019 **Dávalos, L.M.** [Deforestación, Desarrollo y Política Pública](#). Seminario: ¿El Medio Ambiente Como Víctima de la Paz? Deforestación y Conservación De Biodiversidad. Universidad de Los Andes, Bogotá, Colombia.

Conference Presentations (Last 3 years)

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- 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.
- 26 October 2019 **Dávalos, L.M.**, L.R. Yohe, P. Pulido-Santacruz, M. González, A. McPherran, J.A. Soto-Centeno, D.M. Morales Martinez, A.J. Lozano Florez, J. Flanders, D. Rojas, W. Frick, & A.P. Corthals. [Labs without Borders: Methods for Extracting, Amplifying, and Sequencing in the Field](#). 49th Annual North American Symposium on Bat Research, 23–26 October 2019 Kalamazoo, Michigan.
- 27 October 2018 **Dávalos, L.M.**, W.C. Lancaster, M.S. Nuñez-Novas, Y.M. León, B. Lei, J. Flanders, and A.L. Russell. [Using Genetics to Explain Acoustic Divergence in the *Pteronotus parnellii* Species Complex](#). 48th Annual North American Symposium on Bat Research, 24–27 October 2018 Puerto Vallarta, Jalisco.

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, then every Fall 2010–2019 |
| 1.5 credits/instructor | General Ecology, BIO113 (with D. Padilla) 2010 |

Undergraduate Research Supervising (molecular and bioinformatics lab) and Mentoring

- | | |
|---------------------|---------------|
| Spring 2020–present | Sarah Vaccaro |
| Spring 2020–present | Trinity Chen |

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. 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 Ma Fall 2020	Clara Tucker, 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 2017	Anna McPherran, SBU–Ecology and Evolution
Joined PhD Fall 2014	Kristjan Mets, SBU–Ecology and Evolution
Joined PhD Fall 2012	Fanny Cornejo, SBU–Anthropology (co–advised with P. Wright)
E&E PhD, Spring 2019	M. Elise Lauterbur, SBU–Ecology and Evolution (co–advised with P. Wright)

E&E PhD, Fall 2018	Marisa Lim SBU–Ecology and Evolution (co–advised with C. Graham)
E&E MA, Spring 2018	Elizabeth Fitzgerald, SBU–Ecology and Evolution
E&E MA, Spring 2018	Alexander Lengers, SBU–Ecology and Evolution
E&E PhD, Spring 2017	Laurel Yohe, SBU–Ecology and Evolution
E&E MA, Spring 2017	Katherine (Katie) R. Martin, SBU–Ecology and Evolution
MSc, Fall 2014	Maria Alejandra Chadid, masters student at <i>Universidad Nacional</i> (Bogota, Colombia)
E&E MA, Spring 2014	Xiayou Zhang, SBU–Ecology and Evolution
E&E MA dropout Spring 2014	Shaelyn Bishop, SBU–Ecology and Evolution
E&E MA, Spring 2014	Samantha DelSerra, SBU–Ecology and Evolution
E&E MA, Spring 2014	Romain Dahan, SBU–Ecology and Evolution
E&E MA, Spring 2013	Genna Tudda, SBU–Ecology and Evolution
BSc, Spring 2011	Miguel Santiago Núñez, undergraduate student at <i>Universidad Autónoma de Santo Domingo</i> (UASD)
E&E MA, Spring 2011	Aaron Goldberg, SBU–Ecology and Evolution
E&E MA, Spring 2011	Amanda Crow, SBU–Ecology and Evolution
E&E MA, Spring 2011	Alison Onstine, SBU–Ecology and Evolution
Dissertation committees	David Carlson (SBU–E&E), Paul Donat (SBU–E&E), James Herrera (SBU–Anthropology, graduated Spring 2015), 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), 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), Nicolette Sipperly (SBU–E&E), Mihir Umarani (SBU–E&E), David Vanier (IDPAS), Nicolas Wigggenhauser (SBU–IDPAS)

Postdoctoral supervising (where they are now)

Fall 2020–present	Dr. Tanya Lama (NSF postdoctoral fellow)
Summer 2019	Dr. M. Elise Lauterbur (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)
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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 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–present	Member Steering Committee, SBU–BNL Center for Impacts of Regional Climate Change

University Service

Spring 2022–	Member, REACH Visioning Committee https://www.youtube.com/watch?v=6nmMv8s787M
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 2020–present	Marine Conservation and Policy committee, SOMAS
Fall 2019–present	Advisory Board for Institute for Global Studies
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

Community Service

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

Past Experience

2007–2008	<u>Open University, Milton Keynes, UK</u> Lecturer (US equivalent: Assistant Professor): Molecular Ecology
2005–2006	<u>Columbia University, New York, USA</u> Instructor, Department of Ecology, Evolution, and Environmental Biology (E3B) <ul style="list-style-type: none"> • Evolution: from Darwin to DNA

- 2005–2006 American Museum of Natural History, New York, USA
Postdoctoral Research Associate, PI: Susan L. Perkins
- Phylogenomics of malaria parasites
- 2004–2005 University of Arizona, Tucson, USA
Postdoctoral Research Associate, PI: Howard Ochman
- *E. coli* genomics, 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
- Phylogenetics, biogeography, Caribbean mammals
 - Biodiversity conservation, armed conflict, illegal markets
 - Expedition leader: Tambito (Colombia), Jamaica, Dominican Republic, Trinidad, and Cat Island (Bahamas)
 - Teaching assistant: Field Ornithology, People and the Environment
- 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 Universidad del Valle and Centro Internacional de Agricultura Tropical (CIAT), Cali, Colombia
Undergraduate fellow at the Biotechnology Research Unit
- Molecular genetics of resistance to Hoja Blanca virus (HBV) in rice
- 1994–1996 Universidad del Valle, Cali, Colombia
Teaching Assistant
- Three courses: Ecology, Evolution, and Quantitative Genetics

Laboratory Skills

- Nucleic acid and protein extraction, optimization and troubleshooting in lab and field conditions
- PCR technology and troubleshooting in lab and field conditions, PCR-based cloning, quantitative PCR
- Sanger sequencing (all steps), Oxford Nanopore sequencing in lab and field conditions

Computer Skills

- At ease on Unix, Windows, and Macintosh platforms
- Bioinformatics: PERL/BioPERL, MySQL, R statistical language, Jags
- GIS: ArcGIS, relevant R packages, Qgis
- Illustrator, Photoshop, Acrobat, Microsoft Office suite, local and web applications

- Phylogenetics, population genetics, molecular evolution: Arlequin, Autodecay, Beast, Beauti, Blastalign, BLAST, Component, Clustal, Dambe, diva, Diva–GIS, Foldalign, Garli, IM, Muscle, MacClade, Mafft, Maxent, Mega, Mesquite, ModelOMatic, Modeltest, MrBayes, PAUP*, PETfold, Pfold, Phylip, Phyml, Sequin, Sequencher, Tracer, Trinity, Vienna RNA package

Language Skills

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

Media Mentions and Appearances (original reporting only)

- 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-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, «souché 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-respondio-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 Amazonia 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>
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Professional Service

2020–present	Awards Director, Society for 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
2019–present	Bat Conservation International (BCI) Science Advisory Board member
2019–present	Associate Editor, <i>Systematic 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–	Elected Council member, Society for Systematic Biology
December 2019	
Summer 2016	Convener with Elizabeth Dumont and Karen Sears of the bat sensory symposium at the 17 th

	International Bat Research Congress (Durban, South Africa)
Spring 2015	NSF Division of Environmental Biology Panelist
2013–present	Associate Editor, <i>Quarterly Review of Biology</i>
Winter 2013	Chair of symposium on island biogeography at the International Biogeography Society biennial meeting in Miami, Florida
Fall 2012	NSF Division of Environmental Biology Panelist
2012	Guest Lecturer in Topics in Global Change, graduate course convened by T. Mitch Aide at the University of Puerto Rico, Rio Piedras. Responsible for 2 1.5–hr lectures (9 and 11 April), and 1 3.5–hr workshop (13 April).
2012	27–28 March Socio-Environmental Synthesis Center (SESYNC) Theme Meeting participant
2012–2018	Associate Editor, <i>Molecular Phylogenetics and Evolution</i>
2011	Judge of oral presentations at the North American Symposium for Bat Research, Toronto, Ontario.
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>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 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