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Liliana M. Dávalos

Recent Experience

Fall 2008- present	State University of New York at Stony Brook, USA Assistant Professor (2008–2014), Associate Professor (2014–2018), Full Professor (2018–present): Department of Ecology and Evolution, Consortium for Inter–Disciplinary Environmental Research
	 Diversification in species & traits / Genomes & -omes / Tropical deforestation & how to stop it
2015–2016	Consultant for the United Nations 2016 World Drug Report thematic chapter on environmental sustainability
2007- present	American Museum of Natural History, New York, USA 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	(Oct) Certificate in Environmental Policy Studies
1998–2000 1991–1997	Columbia University, GSAS Universidad del Valle	MA (Feb) Ecology and Evolutionary Biology BSc (Oct) Biology with emphasis in Genetics

Current grant funding (percent of applications funded)

Pending	2129378: "Collaborative Research: Dimensions US-China: Role of genome architecture in generating and maintaining functional diversity in bat radiations" PI, National Science
	Foundation, \$687,126 to SBU, \$1,999,993 total.
Pending	2128217: "Collaborative Research: Integrated mechanisms of environment-host-virome
	interactions" PI, National Science Foundation, \$671,969 to SBU, \$1,999,993 total.
Pending	2125800: "Collaborative Research: Bats as models for regulatory change and the evolution of
	dietary metabolism" PI, National Science Foundation, \$407,511 to SBU, \$1,411,392 total.
Pending	2125090: "MIM: Understanding mechanisms of community response to targeted disturbance
	in the worm/soil loop while building STEM diversity" co-PI, National Science Foundation, \$
	1,812,480 to SBU.
Pending	Al165851: "A pan-coronavirus vaccine targeting conserved CoV regions and using an
	established AAVLP platform to elicit potent and durable pan-CoV immunity" PI, National
	Institutes of Health, \$1,962,363 to SBU.

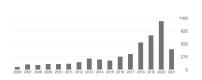
Pending	"A prophylactic universal vaccine against different filovirus species" co-PI, United States Army
2020-2025	Medical Research and Development Command, \$344,313 to SBU, \$3,417,266 total. 2020577: "Collaborative: AccelNet: Global Union of Bat Diversity Networks (GBatNet): Bats as a model for understanding global vertebrate diversification and sustainability" PI, National Science Foundation, \$185,025 to SBU, \$1,670,697 total. (8 funded)
2020–2021	2037406: "INTERN DCL – RoL: FELS: EAGER: Making Genomics & Transcriptomics Accessible to All" PI, National Science Foundation, \$33,649 to SBU. (N/A)
2020–2021	2037413: "INTERN DCL – RoL: FELS: EAGER: Increasing Underrepresented Minority Access to Conservation Genomics" PI, National Science Foundation, \$33,649 to SBU. (N/A)
2020–2021	2032063: "RAPID: Collaborative Research: Bat goblet cells as immuno-hotspots for infection of coronavirus" PI, National Science Foundation, \$59,204 to SBU, \$194,959 total. (~2.7%)
2020–2021	2031906: "RAPID: Collaborative Research: Immunological adaptations in bats to moderate the effect of coronavirus infection" co–PI, National Science Foundation, \$73,574 to SBU, \$200,000 total. (~2.7%)
2020–2021	"Inter-Species Modeling for Spillback/Spillover Avoidance" co-PI, internal SBU funding \$20,000 total. (N/A)
2019–2022	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%)
2019–2021	"SESYNC Pursuit: The death and life of biodiversity: modeling extinction and resilience on islands" joint PI with Siobhán Cooke, Alexis Mychajliw, Angelo Soto & Nathan Upham, National Socio-Environmental Synthesis Center, travel costs for 15 participants in three workshops. (N/A)
2018–2021	1838273: "RoL: FELS: EAGER: Genomics of exceptions to scaling of longevity to body size" PI, National Science Foundation, \$148,060 to SBU, \$299,735 total. (N/A)
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.
2020	Keynote Speaker, North American Symposium on Bat Research. Postponed because of
	COVID-19 pandemic.
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

2013 Certificate of Excellence in Reviewing, *Molecular Phylogenetics and Evolution*, Elsevier 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: 70, total cites: 5056 Most cited paper: Thompson et al. 2017 (999)

Most cited lead author paper: Reddy and Dávalos 2003 (410)

Peer-reviewed journal articles (80 published, 8 in process; SBU †undergraduate, ‡graduate, ♦postdoctoral trainee; non SBU °trainee)

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. Davalos**, 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. Villseñor, **L. Yohe**◊, R.P Guralnick, E.B. Davis. Best practices for aggregating and reporting individual traits. *iScience*.
- In Revision Yohe, L.R.♦, L.B. Leiser-Miller, Z.A. Kaliszewska, P. Donat‡, S.E. Santana, L.M. Dávalos. Diversity in olfactory receptor repertoires is associated with dietary specialization in a genus of frugivorous bat. *G3: Genes*|*Genomes*|*Genetics*. bioRxiv DOI: 2020.2012.2031.424977.
- In Revision 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.* *Equal contribution.
- In Revision **Dávalos, L.M.**, E. Dávalos, J.S. Holmes, **C. Tucker‡**, D. Armenteras. Forests, coca, and conflict: frontier dynamics as key determinants of deforestation in the Amazon-Andes. *Journal of Illicit Economies and Development*.
- In Revision 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*.
- Accepted 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. *Corresponding authors.
- Accepted Moreno Santillan, D.°, T. Lama♦, Y.G. Guerrero, A. Brown‡, P. Donat‡, H. Zhao, S. Rossiter, L.R. Yohe♦, J. Potter, E.C. Teeling, S. Vernes, K.T.J. Davies, E. Myers, G. Hughes, Z. Huang, F. G. Hoffmann, A.P. Corthals, D. Ray*, L.M. Dávalos*. Large-Scale Genome Sampling Reveals Unique Immunity and Metabolic Adaptations in Bats. *Molecular Ecology*. Authorea DOI: 10.22541/au.160977727.76870866/v2 *Corresponding authors.
- Hall, R.P.°, G. Mutumi°, B.P. Hedrick, **L.R. Yohe**(), A. Sadier°, K.T.J. Davies°, S.J. Rossiter, K. Sears, **L.M. Dávalos**, E.R. Dumont. Find the Food First: An Omnivorous Sensory Morphotype Predates Biomechanical Specialization for Plant Based Diets in Phyllostomid Bats. *Evolution*. DOI: 10.1111/evo.14270
- Murillo-Sandoval, P.°, E. Gjerdseth, C. Correa-Ayram, D. Wrathall, J. Van Den Hoek, **L. M. Dávalos**, R. Kennedy. No peace for the forest: Rapid, widespread land changes in the Andes-Amazon region following the Colombian civil war. *Global Environmental Change* **69**: 102283.

 DOI: 10.1016/j.gloenvcha.2021.102283
- 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. Dávalos. Pervasive genomic signatures of local adaptation to altitude across highland specialist Andean hummingbird populations. *Journal of Heredity*. DOI: 10.1093/jhered/esab008
- 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*. DOI: 10.1093/molbev/msab028 *Corresponding authors.
- Jebb, D., Z. Huang, M. Pippel, G. M. Hughes, K. Lavrichenko, P. Devanna, S. Winkler, L. S. Jermiin, E.C. Skirmuntt, A. Katzourakis, L. Burkitt-Gray, D.A. Ray, K.A.M. Sullivan, L.M. Dávalos, Angelique P. Corthals, M.L. Power, G. Jones, R.D. Ransome, D. Dechmann, A.G.

Locatelli, S.J. Puechmaille, O. Fedrigo, E.D. Jarvis, Mark S. Springer, M. Hiller, S.C. Vernes, E.W. Myers, E. C. Teeling. Six new reference quality bat genomes illuminate the molecular basis and evolution of bat adaptations. *Nature* **583**: 578-584. DOI: 10.1038/s41586-020-2486-3

- 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
- Dávalos, E., L.M. Dávalos. Social Investment Deters Smallholder Coca Cultivation. *Journal of Development Studies* **56**(6): 1118-1140. DOI: 10.1080/00220388.2019.1650167
- Shankar, A.‡, D.R. Powers, L.M. Dávalos, C.H. Graham. The allometry of daily energy expenditure in hummingbirds. *Journal of Animal Ecology* 89: 1254-1261. DOI: 10.1111/1365-2656.13185
- Davies, K.*, L. Yohe♦, J. Almonte, M. Sánchez, E. Rengifo, E. Dumont, K. Sears, L.M. Dávalos*, S. Rossiter*. Foraging shifts and visual preadaptation in ecologically diverse bats. *Molecular Ecology* 29: 1839–1859. *Corresponding authors. DOI: 10.1111/mec.15445
- Yohe, L.◊, K.T.J. Davies°, N.B. Simmons, K.E. Sears, E.R. Dumont, S.J. Rossiter, L.M. Dávalos. Evaluating the performance of targeted sequence capture, RNA-Seq, and degenerate-primer PCR cloning for sequencing the largest mammalian multigene family. *Molecular Ecology Resources* 20(1): 140-153. DOI: 10.1111/1755-0998.13093
- Hedrick, B., G. Mutumi°, D. Munteanu, A. Sadier°, K. Davies°, S. Rossiter, K. Sears, L. Dávalos, E. Dumont. Morphological diversification under high integration in a hyper diverse mammal clade. *Journal of Mammalian Evolution* **27**: 563–575. DOI: 10.1007/s10914-019-09472-x
- Yohe, L. V*, 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
- Yohe, L.◊, K.T.J. Davies°, S.J. Rossiter, L.M. Dávalos. Expressed *vomeronasal type-1* receptors (V1rs) in bats uncover conserved sequences underlying social chemical signaling. Genome Biology and Evolution 11(10): 2741-2749. DOI: 10.1093/gbe/evz179
- Lim, M.‡, C. Witt, C. Graham, L.M. Dávalos. Parallel molecular evolution in pathways, genes, and sites in high-elevation hummingbirds revealed by comparative transcriptomics. *Genome Biology and Evolution* 11(6): 1552-1572. DOI: 10.1093/gbe/evz101
- Dávalos, L.M.*, W.C. Lancaster, M.S. Núñez-Novas°, Y.M. León, B. Lei°, J. Flanders, A.L. Russell*. A coalescent-based estimator of genetic drift, and acoustic divergence in the *Pteronotus parnellii* species complex. *Heredity* 122(4): 417-427. *Equal contribution. DOI: 10.1038/s41437-018-0129-3
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- 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/ecv.2404 (Data Paper)
- 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

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- Holmes, J.S., A. Palao Mendizabal°, D. Saucedo De La Fuente, K. Mets‡, A. Cárdenas, D. Armenteras, L.M. Dávalos. Identifying municipal risk factors for leftist guerrilla violence in Colombia. *Peace Economics, Peace Science and Public Policy* 24(2): 23-51. DOI: 10.1515/peps-2017-0009
- Tavares, V.d.C.*, O.M. Warsi‡, F. Balseiro, C. Mancina, **L.M. Dávalos***. Out of the Antilles: Fossil Phylogenies Support Reverse Colonization of Bats to South America. *Journal of Biogeography* 45(4): 859-873. *Equal contribution. DOI: 10.1111/jbi.13175
- 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
- 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
- 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., Kosciolek, T., Bokulich, N.A., Lefler, J., Brislawn, C.J., Humphrey, G.C., Owens, S.M., Hampton-Marcell, J., Berg-Lyons, D., McKenzie, V., Fierer, N., Fuhrman, J.A., Clauset, A., Stevens, R.L., Shade, A., Pollard, K.S., Goodwin, K.D., Jansson, J.K., Gilbert, J.A., Knight, R., The Earth Microbiome Project Consortium*. A communal catalogue reveals Earth's multiscale microbial diversity. *Nature* 551, 457-463. DOI: 10.1038/nature24621 * As part of this massive consortium.
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- Núñez-Novas, M.S.°, Y.M. León, J. Mateo, and **L.M. Dávalos**. 2014. Horas de éxodo y estacionalidad en los murciélagos en cuatro cuevas de la República Dominicana. *Novitates Caribaea* 2014(7), 83-94.
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- 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
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- 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
- Hayden, S.°, M. Bekaert, A. Goodbla, W.J. Murphy, L.M. Dávalos*, E. Teeling*. A Cluster of Olfactory Receptor Genes Linked to Frugivory in Bats. *Molecular Biology and Evolution* 31(4), 917-927. *Equal contribution. DOI: 10.1093/molbev/msu043
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- Dávalos, L.M., J.S. Holmes, N. Rodríguez, D. Armenteras. Demand for beef is unrelated to pasture expansion in northwestern Amazonia. *Biological Conservation* 170(2014), 64-73. DOI: 10.1016/i.biocon.2013.12.018
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- Dávalos, L.M., A.L. Russell. Deglaciation Explains Bat Extinction in the Caribbean. *Ecology and Evolution* 2(12), 1-7. DOI: 10.1002/ece3.399
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- Dumont, E.R.*, **L.M. Dávalos***, A. Goldberg‡, S. E. Santana, K. Rex, C.C. Voigt. Morphological innovation, diversification and the invasion of a new adaptive zone. *Proceedings of the Royal Society B: Biological Sciences* 279(1734), 1797-1805. *Equal contribution. DOI: 10.1098/rspb.2011.2005
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Dávalos, L.M.*, A.C. Bejarano*, H.L. Correa. Disabusing Cocaine: Pervasive Myths and Enduring Realities of a Globalised Commodity. *International Journal of Drug Policy* 20(5), 381-386. *Equal contribution. DOI: 10.1016/j.drugpo.2008.08.007

- Dávalos, L.M.*, A.L. Porzecanski*. Accounting for molecular stochasticity in systematic revisions: Species limits and phylogeny of *Paroaria*. *Molecular Phylogenetics and Evolution* 53(1), 234-248. *Equal contribution. DOI: 10.1016/j.ympev.2009.06.003
- Dávalos, L.M., A. Corthals. A new species of *Lonchophylla* (Chiroptera: Phyllostomidae) from the eastern Andes of northwestern South America. *American Museum Novitates* 3635, 1-16. DOI:10.1206/464.1
- Dávalos, L.M., S.L. Perkins. Saturation and base composition bias explain phylogenomic conflict in *Plasmodium*. *Genomics* 91(5), 433-442. DOI: 10.1016/j.ygeno.2008.01.006
- 2007 **Dávalos, L.M.** Short-faced bats (Phyllostomidae: Stenodermatina): a Caribbean radiation of strict frugivores. *Journal of Biogeography* 34(2), 364-375. DOI: 10.1111/j.1365-2699.2006.01610.x
- Dávalos, L.M. The geography of diversification in the mormoopids (Chiroptera: Mormoopidae). Biological Journal of the Linnean Society 88(5), 101-118. DOI: 10.1111/j.1095-8312.2006.00605.x
- Ochman, H., **L.M. Dávalos**. The nature and dynamics of bacterial genomes. *Science* 311(5768), 1730-1733. DOI: 10.1126/science.1119966
- Dávalos, L.M. Molecular phylogeny of Funnel-eared bats (Chiroptera: Natalidae), with notes on biogeography and conservation. *Molecular Phylogenetics and Evolution* 37(1), 91-103. DOI:10.1016/j.ympev.2005.04.024
- Fjeldså, J., **M.D. Álvarez**, J.M. Lazcano, B. León. Illicit Crops and Armed Conflict as Constraints on Biodiversity Conservation in the Andes Region. *Ambio* 34(3), 205-211. DOI: 10.1579/0044-7447-34.3.205
- Carstens, B.C., J. Sullivan, **L.M. Dávalos**, P.A. Larsen, S.C. Pedersen. Exploring population genetic structure in three species of Lesser Antillean bats. *Molecular Ecology* 13(9), 2557-2566. DOI: 10.1111/j.1365-294X.2004.02250.x
- 2004 **Dávalos, L.M.**, S.A. Jansa. Phylogeny of the Lonchophyllini (Chiroptera: Phyllostomidae). *Journal of Mammalogy* 85(3), 404-413. DOI: 10.1644/1545-1542(2004)085<0404:POTLCP>2.0.CO;2
- 2004 **Dávalos, L.M.** Phylogeny and biogeography of Caribbean mammals. *Biological Journal of the Linnean Society* 81(3), 373-394. DOI: 10.1111/j.1095-8312.2003.00302.x
- 2004 **Dávalos, L.M.** A new Chocoan species of *Lonchophylla* (Chiroptera: Phyllostomidae). *American Museum Novitates* 3426, 1-14. DOI: 10.1206/0003-0082(2004)426<0001:ANCSOL>2.0.CO;2
- 2003 Reddy, S.*, **L.M. Dávalos***. Geographical sampling bias and its implications for conservation priorities in Africa. *Journal of Biogeography* 30(11), 1719-1727. *Equal contribution. DOI: 10.1046/j.1365-2699.2003.00946.x
- **Álvarez, M.D.** Forests in the time of violence: conservation implications of the Colombian war. *Journal of Sustainable Forestry* 16(3,4), 49-70. DOI:10.1300/J091v16n03_03
- Dávalos, L.M., R. Sears, G. Raygorodetsky, B. Simmons, H. Cross, T. Grant, T. Barnes, L. Putzel, A.L. Porzecanski. Regulating access to genetic resources under the Convention on Biological Diversity: An analysis of selected case studies. *Biodiversity and Conservation* 12(7), 1511-1524. DOI: 10.1023/A:1023615303748
- Dávalos, L.M., R. Eriksson. New and Noteworthy records from Ten Jamaican bat caves. *Caribbean Journal of Science* 39(1), 140-144.
- Alvarez, M.D. Illicit crops and bird conservation priorities in Colombia. *Conservation Biology* 16(4), 1086-1096. DOI: 10.1046/j.1523-1739.2002.00537.x
- Sears, R., **L.M. Dávalos**, G. Ferraz. Missing the forest for the profits: The role of multinational corporations in the international forest regime. *Journal of Environment and Development* 10(4), 345-364.
- Alvarez, M.D. Could peace be worse than war for Colombia's forests?. *The Environmentalist* 21(4), 305-315. DOI: 10.1023/A:1012904318418

2001	Dávalos, L.M., T. Brooks. Parc National La Visite, Haiti: a last refuge for the country's montane
	birds. Cotinga 16, 36-39.
2001	Brooks, T., L.M. Dávalos. The Birds of Île-à-Vache, Haiti. Caribbean Journal of Science 37(1,2),
	112-115.
2001	Dávalos, L.M. The San Lucas mountain range in Colombia: How much conservation is owed to
	the violence? Biodiversity and Conservation 10(1), 69-78. DOI: 10.1023/A:1016651011294
1999	Dávalos, L.M., J. A. Guerrero. The bat fauna of Tambito, Colombia. Chiroptera Neotropical 5(1-
	2), 112-115.
1999	Donegan, T., L. Dávalos. Ornithological observations from Reserva Natural Tambito, Cauca,
	south-west Colombia. Cotinga 12, 48-55.
1998	Salaman, P., L. Dávalos, G. Kirwan. The first breeding records of White-rimmed Brush-finch,

Edited Books (2 published)

- 2020 <u>Phyllostomid bats: A Unique Mammalian Radiation</u>. T. Fleming, **L.M. Dávalos**, and M.A. Ribeiro de Mello (eds.). Chicago: University of Chicago Press.
- 2018 <u>The Origins of Cocaine: Colonization and Failed Development in the Amazon Andes</u>. P. Gootenberg, and **L.M. Dávalos** (eds.). London: Routledge.

Atlapetes leucopis, with ecological notes. Cotinga 9, 24-26.

Peer-reviewed book sections (9 published)

- 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.
- Dávalos, L.M., P. Velazco°, D. Rojas. Phylogenetics and Historical Biogeography. Pp. 87–103 in *Phyllostomid bats: A Unique Mammalian Radiation*. T. Fleming, L.M. Dávalos, and M.A. Ribeiro de Mello (eds.). Chicago: University of Chicago Press.
- Fleming, T.H., **L.M. Dávalos,** M.A. Ribeiro de Mello. Overview of this book. Pp. 3–5 in *Phyllostomid bats: A Unique Mammalian Radiation*. T. Fleming, L.M. Dávalos, and M.A. Ribeiro de Mello (eds.). Chicago: University of Chicago Press.
- Yohe, L.R.◊, L. Liu, **L.M. Dávalos**, and D.A. Liberles. Protocols for the molecular evolutionary analysis of membrane protein gene duplicates. Pp. 49-62 in *Computational Methods for Protein Evolution*. T.T. Sikosek (ed.). New York: Springer.
- Dávalos, L.M. The Ghosts of Development Past: Deforestation and Coca in Western Amazonia. Pp. 19-51 in *The Origins of Cocaine: Colonization and Failed Development in the Amazon Andes*. P. Gootenberg, and L.M. Dávalos (eds.). London: Routledge.
- 2012 Dávalos, L.M., S. Turvey. West Indian mammals: The old, the new, and the recently extinct. Pp. 157-202 in Bones, Clones and Biomes: The History and Geography of Recent Neotropical Mammals. B. Patterson, and L. P. Costa (eds.). Chicago: University of Chicago Press.
- Pinedo Vasquez, M., **L.M. Dávalos**. The river-refuge hypothesis and other contributions of Márcio Ayres to conservation science. Pp. 317-324 in *The Amazonian Varzea: The Decade Past and the Decade Ahead*. M. Pinedo Vasquez, M. Ruffino, C. J. Padoch, and E. Brondizio (eds.). New York: Springer.
- Dávalos, L.M. Earth history and the evolution of Caribbean bats. Pp. 96-115 in *Island bats: ecology, evolution, and conservation*. Fleming, T.H., and P.A. Racey (eds.). Chicago: University of Chicago Press.
- Alvarez, M.D. Environmental damages from illicit crops and processing of prohibited drugs in Colombia. Pp. 133-147 in *Extreme conflicts and tropical forests*. de Jong, W., D. Donovan, and A. Ken-ichi (eds.). Dordrecht: Springer.

Alvarez, M.D. Forests in the time of violence: conservation implications of the Colombian war. Pp. 49-70 in *War and tropical forests: conservation in areas of armed conflict*. Price, S.V. (ed.). Food Products Press, New York. Cross-published in journal.

Editor-reviewed contributions (19 published)

- 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.
- 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
- 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
- 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
- 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 UNODC, ed. World Drug Report 2016. UNODC, Vienna.
- 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.
- Dávalos, L.M., A.C. Bejarano. Conservation in conflict: Illegal drugs versus habitat in the Americas. State of the Wild 2008-2009: A global portrait of wildlife, wildlands, and oceans. Pp. 218-225 in Fearn, E., (ed.). Washington, D.C.: Island Press.
- 2005 **Dávalos, L.M.** Bats of Puerto Rico. Caribbean Journal of Science 41(4), 882-883.
- Alvarez, 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
- 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: ¿Habrá futuro?. ACODAL 194, 13-17.
- Alvarez, M.D. Daños ambientales por cultivos ilícitos y procesamiento de drogas prohibidas en Colombia. *ACODAL* 193, 7-16.
- Alvarez, 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.
- Dávalos, L.M. El Futuro de los bosques de Colombia: ¿será la paz peor que la guerra? El Tiempo (Bogotá) 21 August 2000.
- 2000 **Dávalos, L.M**. Cuál justicia. *El Tiempo* (Bogotá) 15 July 2000.
- Porzecanski, A.L., R. Sears, T. Grant, L. Putzel, L. Dávalos, T. Barnes, H. Cross, G. Raygorodetsky, B. Simmons, P. Chasek. Access to Genetic Resources: An Evaluation of the Development and Implementation of Recent Regulation and Access Agreements. School of International and Public Affairs Columbia University Environmental Policy Studies Working Paper #4, 114 pp.
- 1998 Salaman, P.G., T.M. Donegan, A.M. Cuervo, D.E. Davison, L. Dávalos. Birds- Aves. Colombian EBA Project Report Series, Colombia '98: expedition to Serranía de los Churumbelos 1, 17-21.

Abstracts and short-form publications (31 published)

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

- Dávalos, L.M. What we know and don't know about the origins of SARS-CoV2. *GBatNet* 15 April https://gbatnet.blogspot.com/2020/04/what-we-know-and-dont-know-about.html
- Dávalos, L.M., N. Upham. Coronavirus was low risk until it wasn't. Climate change is the same. Medium 27 March https://tinyurl.com/ybntztis
- 2019 **Dávalos, L.M.** <u>Vampire bats help unravel mystery of mammalian sense of smell.</u> Nature Ecology and Evolution *Community Post* 16 September 2019.
- 2019 **Dávalos, L.M.** <u>Discovering the steps to phenotype loss: the case of bat opsins.</u> Nature Ecology and Evolution *Community Post* 16 January 2019.
- 2017 **Dávalos, L.M**. <u>Long-Term Diversity Equilibrium on Islands in a Rapidly Changing World.</u> Nature Ecology and Evolution *Community Post* 9 January 2019.
- 2016 Moore, M.S., G.M. Poterewicz, **L.M. Dávalos**. Genomic Inventories of Bat Antimicrobial Peptides: Implications for Resistance to White-nose Syndrome. *Integrative and Comparative Biology* 56, E152-E152.
- 2016` Yohe, L.R., K. Davies, S.J. Rossiter, **L.M. Dávalos**. Selection on the sniffer: olfactory receptor evolution shows association with diet. *Integrative and Comparative Biology* 56, E246-E246.
- 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 Corrider, Southeast Madagascar. *American Journal of Primatology* 77, 95-95.
- Sbeglia, G.C., D.E. Dykhuizen, P.C. Wright, **L.M. Dávalos**. Socially facilitated *E. coli* transmission in ringtailed lemurs (*Lemur catta*): Social relationships that promote and prevent the spread of disease. *American Journal of Physical Anthropology* 153, 230-230.
- Dumont, E.R., **L.M. Dávalos**, A. Goldberg, S.E. Santana, K. Rex, C.C. Voigt. Cranial Morphology, Feeding Performance and Diversification in New World Leaf-Nosed Bats. *Integrative and Comparative Biology* 52, E49.
- A. Martin, L.M. Dávalos, W. Lancaster, A.L. Russell, M. Woller-Skar, A. Corthals. A Comparison of DNA Yields from Different Tissue Types and Storage Media. *Bat Research News* 53(4), 94.
- Dávalos, L.M., N. Wei, A.L. Russell. Ecological Release and Genetic Signatures of Population Growth in Antillean *Artibeus jamaicensis*. *Bat Research News* 53(4), 78-79.
- 2011 Corthals, A.S.P., L. Dávalos, D.W. Martin, R. Rieger, E.I. Chen, A. Koller. Detecting Immune System Response Proteins in a 500 Year-old Inca Mummy. *Journal of Biomolecular Techniques* 22, S64.
- Dávalos, L.M., A.L. Russell. False Positive and False Negative Error Rates in Mitochondrial Species Delimitation. *Bat Research News* 52(4), 69.
- Velazco, P.M.°, N.B. Simmons, **L.M. Dávalos**. Combined Analyses of Extant and Fossil Phyllostomid Bats (Chiroptera, Phyllostomidae). *Bat Research News* 52(4), 109.
- 2011 Russell, A., W.C. Lancaster, B. Lei, **L.M. Dávalos**. Genetic Demography of *Pteronotus parnellii* Reveals Historic Isolation of Island Populations. *Bat Research News* 52(4), 98.
- Proffitt, J., N.B. Simmons, P.M. Velazco°, **L.M. Dávalos**. Evolutionary Relationships of Living and Fossil Vampire Bats. *Bat Research News* 52(4), 94.
- Wetterer, A.L.°, **L.M. Dávalos**, J.H. Geisler, N.B. Simmons. Revisiting phyllostomid bat phylogeny: a combined analysis of morphological and molecular data. *Bat Research News* 50(4), 153.
- Simmons, N.B., P.D. Smits, P.M. Velazco°, G.F. Gunnell, **L.M. Dávalos**. A new approach to studying dental evolution. *Bat Research News* 50(4), 142-143.
- 2009 Lancaster, W.C., A.L. Russell, Y. León, M.S. Núñez, **L.M. Dávalos**. Constant frequency call as determinants of divergence between Antillean populations of *Pteronotus parnellii* (Mormoopidae). *Bat Research News* 50(4), 118-119.
- 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.
- Dávalos, L.M., A.L. Russell. Island area change, not species range, explains bat extinction in the West Indies. *Bat Research News* 50(4), 101-102.
- Dávalos, L.M., A.L. Russell. A quantitative approach to historical ecology of the West Indies: Artibeus jamaicensis. Bat Research News 49(4), 113-114.
- Russell, A.L., **L.M. Dávalos**. Dynamics of gene flow and extinction in island metapopulations under climate change: model discrimination through population genetic simulations. *Bat Research News* 49(4), 166-167.
- Dávalos, L.M., V.d.C. Tavares. Merging Historical and Ecological Biogeography for the Short-faced Bats. *Bat Research News* 44(4), 199.
- 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.
- Dávalos, L.M., V.d.C. Tavares. A total evidence phylogenetic hypothesis for the relationships among Short-Faced bats (Phyllostomidae: Stenodermatina). *Bat Research News* 43(4), 144.
- Dávalos, L.M. Species limits and the historical biogeography of the Antillean endemic Genus Brachyphylla. Bat Research News 42(4), 149-150.
- 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)

- 27 May, Dávalos, L.M. ¿Cómo interactúan los cultivos ilícitos y la deforestación en Colombia? Asamble
 2021 de Estudiantes, Universidad Nacional de Colombia. Via Zoom.
- 22 April Dávalos, L.M. Forests, bats, guerrillas: A systems approach for thought and action in the
 - 2021 <u>Anthropocene</u>. Scott A. Margolin '99 Lecture in Environmental Affairs, Middlebury College. Via Zoom.
- 12 February
 & 3 March
 2021
 Dávalos, L.M. Diversity in the Skies: A Genomic Journey among Bats. Biological Sciences
 Dávalos, L.M. Diversity in the Skies: A Genomic Journey among Bats. Biological Sciences
 Darwin Day Seminar, DePaul University and EAWAG. Via Zoom.
- 29 October Dávalos, L.M. <u>Más Preguntas que Respuestas en la Genómica Sensorial de Murciélagos</u>.
 2020 Seminario Virtual de Ciencias Biológicas. Via Youtube.
- 28 October Dávalos, L.M. Integrative Biodiversity Science for a Global Future. Wyss Symposium on Integrative Biodiversity Conservation Science. Via Zoom.
- 14 October Dávalos, L.M. Webinar: Economías Ilícitas y Medio Ambiente. Centro de Estudios sobre Seguridad y Drogas. Via WebEx.
 - 9 August Dávalos, L.M. & A.P. Corthals. <u>COVID-19 in context</u>. Indian Scientists' Response to COVID-2020 19. Via Zoom.
- 31 July 2020 Dávalos, L.M, A. Hart, T. Kingston, A. Morss. <u>Bats in the Media Webinar</u> moderated by Dan Riskin. Via Zoom.
- 29 July 2020 Dávalos, L.M. <u>Building an inclusive bioethics for field work in the 21st century</u>. <u>Gender and diversity in STEMM: building an inclusive community</u>. Via Zoom.
 - 13 June Dávalos, L.M. <u>Muerte y Vida de la biodiversidad: el caso de las Antillas</u>. Semana de los
 - 2020 Murciélagos. Via Zoom
- 2 June 2020 **Dávalos, L.M**. <u>Más Preguntas que Respuestas en la genómica sensorial de murciélagos</u>. Programa de Conservación de Murciélagos de Perú. Via Zoom.
 - 29 August Dávalos, L.M. & the Bat1K Team. *The Genomics of Why There are So Many Species of Bats*.
 - 2019 Genome 10K Annual Meeting. Rockefeller University, New York, New York.

6 August Dávalos, L.M. <u>Deforestación, Desarrollo y Política Pública</u>. Seminario: ¿El Medio Ambiente 2019 Como Víctima de la Paz? Deforestación y Conservación De Biodiversidad. Universidad de Los

Andes, Bogotá, Colombia.

3 July 2019 Dávalos, L.M. Genomic Insights into bat Senses. Max Planck Institute for Animal Behavior,

Radolfzell, Germany.

Conference Presentations (Last 3 years)

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

2021 2.

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

2020 Twitter Conference 1.

26 October Dávalos, L.M., L.R. Yohe, P. Pulido-Santacruz, M. González, A. McPherran, J.A. Soto-

2019 Centeno, D.M. Morales Martinez, A.J. Lozano Florez, J. Flanders, D. Rojas, W. Frick, & A.P. Corthals. <u>Labs without Borders: Methods for Extracting, Amplifying, and Sequencing in the Field</u>. 49th Annual North American Symposium on Bat Research, 23–26 October 2019

Kalamazoo, Michigan.

27 October Dávalos, L.M., W.C. Lancaster, M.S. Nuñez-Novas, Y.M. León, B. Lei, J. Flanders, and A.L.

2018 Russell. <u>Using Genetics to Explain Acoustic Divergence in the Pteronotus parnellii Species</u>
<u>Complex.</u> 48th Annual North American Symposium on Bat Research, 24–27 October 2018
Puerto Vallarta, Jalisco.

University Teaching

Undergraduate courses taught at SUNY Stony Brook

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 Fall

2010-Fall 2019

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

Undergraduate Research Supervising (molecular and bioinformatics lab) and Mentoring

Fall 2020-present Mirena Medina Fall 2020-present Isabelle Loop Fall 2020-present Amena Islam Spring 2020-present Trinity Chen Jessica Semel Spring 2020-present Spring 2020-present Julie Micko Spring 2020-present Sarah Vaccaro Summer 2019–Spring Clara Tucker

2020

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

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

2016 (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 Taller de Escritura Científica en Ecología y Biología Evolutiva (Ecology and

workshop Evolutionary Biology Scientific Writing Workshop) 11-12 March 2019 at

Universidad Nacional of Colombia. With Danny Rojas and Laurel Yohe.

2.0 credits Seminar on the ecology and evolutionary biology of early state formation, BEE

692 2018

4 lectures on Principles of Evolution BEE551 Fall 2013

phylogenetics

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

workshop Tropicales (Spatial Analysis for Biodiversity Conservation and Tropical

Landscape Management Workshop) 8-10 July 2013 at Universidad Nacional of

Colombia

2 lectures Principles of Evolution BEE551 Fall 2012

2.0 credits/person Principles and Applications of Ecology and Evolution BEE 576 (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

Joined PhD Fall 2019

Joined PhD Fall 2018

Joined PhD Fall 2017

Joined PhD Fall 2017

Joined PhD Fall 2014

Clara Tucker, SBU–Ecology and Evolution

Alexis Brown, SBU–Ecology and Evolution

Anna McPherran, SBU–Ecology and Evolution

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 Alexander Lengers, SBU–Ecology and Evolution

E&E PhD, Spring 2017 Laurel Yohe, SBU-Ecology and Evolution

E&E MA, Spring 2017 Katherine (Katie) R. Martin, SBU-Ecology and Evolution

MSc, Fall 2014 Maria Alejandra Chadid, masters student at *Universidad Nacional* (Bogota,

Colombia)

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

2014

E&E MA, Spring 2014 Samantha DelSerra, SBU-Ecology and Evolution Romain Dahan, SBU-Ecology and Evolution E&E MA, Spring 2013 Genna Tudda, SBU-Ecology and Evolution

BSc, Spring 2011 Miguel Santiago Núñez, undergraduate student at *Universidad Autónoma de*

Santo Domingo (UASD)

E&E MA, Spring 2011 Aaron Goldberg, SBU–Ecology and Evolution E&E MA, Spring 2011 Amanda Crow, SBU–Ecology and Evolution

E&E MA, Spring 2011

Alison Onstine, SBU-Ecology and Evolution

Dissertation committees

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 Wiggenhauser SBU-(IDPAS)

Postdoctoral supervising (where they are now)

Fall 2020-present Tanya Lama (NSF postdoctoral fellow)

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

Summer 2017-Spring

2018

Spring 2013-Fall 2016 Fall 2013-Summer 2015 Dr. Danny Rojas (Assistant Professor at Universidad Javeriana, Cali, Colombia) Dr. Marianne Moore (Assistant Professor at Arizona State University, Mesa)

Lab rotation

Fall 2009 Emmanuel Asare (Genetics program)

Guest lectures

1 lecture and discussion to undergraduate student of Tembo: the Wildlife Spring 2015

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

Summer 2020-present Faculty representative, Code of Conduct committee

Summer 2020-present 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

Spring 2010

ESAC (second year student advisory committee) 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 2021 Research & Innovation Task force member

Spring 2021 Strategic Research Growth Working Group member Fall 2020-present Marine Conservation and Policy committee, SOMAS Advisory Board for Institute for Global Studies Fall 2019-present Fall 2019-Spring 2020 Member search committee SOMAS ecologist hire

Fall 2019 INSPIRES summary panelist

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

Resources

Spring 2017 Lab selected for Stony Brook University promotional video "The Future is Now"

https://www.youtube.com/watch?v=J1Zg7 QT1zY

Diversity Working Group Spring 2016–Spring 2017

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 Globalization initiative writing committee member Fall 2013

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

Tinker Grant Committee Spring 2010

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 Mentoring research of volunteer and SBU UG graduate Brandon Baird

Fall 2012-Spring 2013 Fall 2012

Mentoring research of Syracuse UG student Jonah Rothleder

Summer 2013 Mentoring research of Gabrielle Donnelly, Samuel Gochman, Edward LI,

Cameron Morales, and Yasin Perez, Long Island High School students

Summer 2012 Mentoring research of Elodia Caballero (admitted at Columbia University),

Johana Peña, Zachary Rowe (admitted at Stony Brook University), and Nancy Wei (admitted at Northwestern University), Long Island High School students

Summer 2011 Mentoring research of Alexander Legakis (admitted at Cornell University), Long

Island High School student

Summer 2010 Mentoring research of Bonnie Lei (admitted at Harvard University), southern

California High School student, Siemens Regional Finalist 2010, Finalist Intel

Science Talent Search 2011, 2nd Grand Award Animal Sciences category at Intel

International Science and Engineering Fair 2011

Summer 2010 Mentoring research of Laura Barger (admitted at University of Pennsylvania),

Long Island High School student

Summer 2009–Summer

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 Fall 2009–Spring 2010 Mentoring research of volunteer Mark Hall

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	Open University, Milton Keynes, UK Lecturer (US equivalent: Assistant Professor): Molecular Ecology
2005–2006	Columbia University, New York, USA Instructor, Department of Ecology, Evolution, and Environmental Biology (E3B) • Evolution: from Darwin to DNA
2005–2006	American Museum of Natural History, New York, USA

Postdoctoral Research Associate, Pl: Susan L. Perkins

Phylogenomics of malaria parasites

2004–2005 University of Arizona, Tucson, USA

Postdoctoral Research Associate, Pl: 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, Pl: 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 Omithology, 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 <u>Universidad del Valle and Centro Internacional de Agricultura Tropical</u>

(CIAT), Cali, Colombia

Undergraduate fellow at the Biotechnology Research Unit

• Molecular genetics of resistance to Hoja Blanca virus (HBV) in rice

1994–1996 <u>Universidad del Valle, Cali, Colombia</u>

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

Mentions in Media (Original reporting, no press releases or newswires)

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/

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

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/

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/

- 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 Calle, H. (Infoamazonia). La Amazonia que queremos necesita a la ciencia. *El Espectador* 10 August https://www.elespectador.com/noticias/medio-ambiente/la-amazonia-que-queremos-necesita-a-la-ciencia/
- Anonymous. Comment les chauves-souris survivent-elles à des virus mortels? *Radio-Canada* 25 July 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
- Ebrahim, Z. Bats are immune to coronaviruses, so scientists are looking at what we can learn from them. *health24* 24 June https://tinyurl.com/yccucyuv
- Anonymous. Holy goblet cells! Scientists studying bat-immunity. *InnovateLI* 18 June https://www.innovateli.com/innovation-in-the-age-of-coronavirus/
- Hertzberg, N. Les secrets de la chauve-souris, «souche`a virus» au système immunitaire d'exception. *Le Monde* 13 April https://tinyurl.com/yd843xwy
- 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-encolombia/
- 2019 Lancaster, W. Speciation and Divergent Behaviour in Caribbean Populations of the Greater Mustached Bat. *Nature Ecology and Evolution Behind the Paper* 31 August https://tinyurl.com/y67huwlv
- 2019 Romero, S. Where is the Amazon Rainforest Vanishing? Not Just in Brazil. *New York Times* 30 August https://www.nytimes.com/2019/08/30/world/americas/amazon-rainforest.html
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- 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
- 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/
- 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/elestado-aplazado-columna-801373
- 2018 Haupt, R. Episode 278 | LOST. Science... sort of (podcast) 15 March https://tinyurl.com/yaye2jds
- Calle, H. La catalana que estudia los incendios forestales en Colombia. *El Espectador* 18 February https://tinyurl.com/y797wtjg
- 2018 Kobilinsky, D. Omnivorous bats have better evolutionary success. *The Wildlife Society* 14 February http://wildlife.org/omnivorous-bats-have-better-evolutionary-success/
- 2018 Mowbray, S. Trumping Colombia's peace: U.S. drug war threatens fragile accord, forests. *Mongabay* 5 February https://tinyurl.com/yb9f2zez
- 2017 Sen, M. Is Cocaine Vegan? It Depends on Who You Ask. *Vice Munchies* 29 November https://munchies.vice.com/en_uk/article/zmzjnw/is-cocaine-vegan-it-depends-on-who-you-ask
- 2017 Sheridan, K. Giant Caribbean sloths disappeared in extinction that also killed off monkeys and giant rodents. *Newsweek* 13 November https://tinyurl.com/yck2bkfn
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- 2017 Pearce, F. Human arrivals wiped out the Caribbean's giant ground sloths. *New Scientist* 10 November https://www.newscientist.com/article/human-arrivals-wiped-caribbeans-giant-ground-sloths/
- 2017 Bermúdez-Liévano, A. Cocaine Farmers Are Hunting for an Alternative. *Vice* 7 November https://www.vice.com/en_us/article/ywbnxw/cocaine-farmers-are-hunting-for-an-alternative
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- 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
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- 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
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- 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
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September http://www.reuters.com/article/us-latam-environment-landrights-idUSKCN11Y2HY

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- 2016 Howard, J. An Exhaustive Lemur Family Tree Sheds Light On These Rare, Threatened Primates. HuffPost Science 25 April http://tinyurl.com/h7podbs
- 2016 Anonymous. Especiação dos morcegos noctilionoídeos do Novo Mundo ocorreu, afinal, antes do Quaternário. *Correio da Beira Serra* 15 February. http://tinyurl.com/zrs5klm
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- Anonymous. Peor que la coca. Semana 15 August http://www.semana.com/confidenciales/articulo/el-ultimo-estudio/438679-3
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- 2015 Le Page, M. Home-brew heroin: soon anyone will be able to make illegal drugs. *New Scientist* 20 May. https://www.newscientist.com/article/mg22630224-400-home-brew-heroin-soon-anyone-will-be-able-to-make-illegal-drugs/
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Professional Service

2020-present	Awards Director, Society for Systematic Biology
2020-present	Contributor, Working Group 7: Drivers of Amazon Deforestation, Science Panel for the
	<u>Amazon</u>
2019-present	Bat Conservation International (BCI) Science Advisory Board member
2019-present	Associate Editor, Systematic Biology
Summer 2018	Convener with Sharlene Santana and Guillaume Chomicki of the symposium on ecological
	interactions at the II Joint Congress on Evolutionary Biology (Montpellier, France)
2017-2020	Associate Editor, Mastozoología Neotropical
2017-present	Executive Board Member, Bat1K

January 2016–

Elected Council member, Society for Systematic Biology

December 2019

Summer 2016 Convener with Elizabeth Dumont and Karen Sears of the bat sensory symposium at the

17th International Bat Research Congress (Durban, South Africa)

Spring 2015 2013–present NSF Division of Environmental Biology Panelist Associate Editor, *Quarterly Review of Biology*

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 2012–2018 $27-28 \ \mathsf{March\ Socio-Environmental\ Synthesis\ Center\ (SESYNC)\ Theme\ Meeting\ participant}$

Associate Editor, *Molecular Phylogenetics and Evolution*

2011

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

Ontario.

2007-present

Collaboration with the Illicit Crop Monitoring System of Colombia (SIMCI), sponsored by the United Nations Office on Drug and Crime; advising monitoring bodies in Peru and Bolivia

through SIMCI

2006-present

Ad hoc grant reviewer for the *Agence Nationale de la Recherche* (France), Biotechnology and Biological Sciences Research Council (BBSRC, UK), *Consejo Nacional de Ciencia y Tecnología* (CONACYT, Mexico), National Geographic Society, and the National Science Foundation (NSF) of the United States.

2004-present

Ad hoc reviewer in Evolutionary Biology: Acta Chiropterologica, Axios reviews, The American Naturalist, Biological Journal of the Linnean Society, BMC Evolutionary Biology, Canadian Journal of Zoology, Communications Biology, Ecography, Evolution, FEBS Letters, Forest Policy and Economics, Frontiers in Ecology and Evolution, Frontiers in Zoology, Gene, Genetica, Genome Biology and Evolution, Journal of Biogeography, Journal of Field Ornithology, Journal of Heredity, Journal of Mammalian Evolution, Journal of Mammalogy, Journal of Parasitology, Methods in Ecology and Evolution,

MicrobiologyOpen, Molecular Biology and Evolution, Molecular Ecology, Nature Ecology and Evolution, Molecular Ecology Notes (currently Mol. Ecol. Resources), Molecular Phylogenetics and Evolution, Nature Ecology and Evolution, PeerJ, Philippine Journal of Science, PLoS One, Proceedings of the Biological Society of Washington, Proceedings of the Royal Society B: Biological Sciences, Quaternary Science Reviews, Scientific

Publications of the American Museum of Natural History, Scientific Reports, Systematic Biology, Trends in Ecology and Evolution, University of Chicago Press, Zootaxa. Ad hoc reviewer in Ecology: Actualidades Biológicas, Caribbean Journal of Science, Chiroptera Neotropical, Diversity and Distributions, Environmental Science & Technology, Emu, Ornitología Neotropical, Quarterly Review of Biology.

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

Ad hoc reviewer in Environmental Humanities: Forest Policy and Economics, Journal of

Peasant Studies, Landscape Ecology, Journal of World Systems Research.

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

Bat Research Congress (Prague, Czech Republic)

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

Oregon

Fall 2009 NSF Division of Biological Infrastructure Panelist

2008–2012 Editorial Board member, Molecular Phylogenetics and Evolution

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

Pennsylvania

2008	IUCN Global Mammal Assessment: Mesoamerican and Caribbean
2006	IUCN Global Mammal Assessment: northern Andes
2006	Technical consultant: IMAX film "Mummies: Secrets of the Pharaohs"
2000	BirdLife International assessment (neotropical)

Professional Society Membership

Society for Systematic Biology, Life Member
North American Society for Bat Research
Society for the Study of Evolution
International Biogeography Society
Society for Conservation Biology
American Society of Mammalogy