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RESEARCH & TEACHING INTERESTS: tropical ecology and conservation, plant population ecology, plant-animal interactions, scientometrics, science & science policy in Latin America

LANGUAGES: Native fluency in Spanish and English, Fluent in Portuguese

EDUCATION

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| 2001 | Univ. of California-Davis | Ph.D. in Population Biology |
| 1995 | Univ. of California-San Diego | M.S. in Biology |
| 1994 | Univ. of California-San Diego, Revelle College | B.S. in Ecology, Behavior, & Evolution; Literature Minor |

PROFESSIONAL APPOINTMENTS

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| 2013-Present | Professor & Distinguished Teaching Scholar , University of Florida Department of Wildlife Ecology & Conservation & Center for Latin American Studies |
| 2012-Present | Director , Florida-Brazil Linkage Institute Center for Latin American Studies, University of Florida |
| 2013-Present | Editor-in-Chief , <i>Biotropica</i> Published by Wiley for the Association for Tropical Biology & Conservation |
| 2014-Present | Board of Directors , Dryad Digital Data Repository |
| 2005-Present | Adjunct Professor , Universidade Federal de Uberlândia, Brazil Graduate Program in Ecology and Natural Resource Conservation |
| 2007-2013 | Associate Professor , University of Florida Department of Wildlife Ecology & Conservation & Center for Latin American Studies |
| 2002-2007 | Assistant Professor , University of Florida Department of Wildlife Ecology & Conservation & Center for Latin American Studies |
| 2001-2002 | NSF Minority Postdoctoral Fellow , Biological Dynamics of Forest Fragments Project Instituto Nacional de Pesquisas da Amazônia – Smithsonian Institution |

AWARDS

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| 2016 | Sigma Xi (Full Member, University of Florida Chapter) |
| 2014 | Academy of Distinguished Teaching Scholars, University of Florida |
| 2012 | Outstanding Paper Award, International Association for Landscape Ecology (US Chapter) <i>For the year's outstanding contribution to the field, published in any journal</i> |
| 2011 | Graduate Advisor & Teacher of the Year, College of Agricultural and Life Sciences, UF |
| 2009 | University of Florida Research Foundation Professor (2009-2011) |
| 2007 | Julie S. Denslow Prize, Association for Tropical Biology & Conservation <i>For the outstanding paper published in the journal Biotropica</i> |
| 2005 | International Educator of the Year, UF (<i>untenured faculty category</i>) |
| 2003 | Diversity Scholar, American Institute for Biological Sciences |
| 2002 | John L. Harper Award Early Career Researcher Award, British Ecological Society <i>For the outstanding paper published in the Journal of Ecology by a young investigator</i> |
| 1994 | Ernest C. Mort Leadership Excellence Award, Revelle College, UC San Diego |

FELLOWSHIPS

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| 2012-2015 | Ciência Sem Fronteiras Special Visiting Researcher Fellowship, Brazil |
| 2009 | Fulbright Scholar, Brazil |
| 2009 | Visiting Researcher Fellowship, CNPq-Brazil |
| 2001 | NSF Minority Postdoctoral Research Fellowship |
| 2001 | NSF International Research Fellowship (declined) |
| 2000 | Ford Foundation Dissertation Year Fellowship |
| 1999 | UC Davis Graduate Studies Fellowship |
| 1998 | UC Davis John F. Steindler Graduate Fellowship |
| 1995 | NSF Minority Predoctoral Research Fellowship |
| 1993 | Howard Hughes Senior Honors Thesis Fellowship |
| 1993 | UCSD Howard Hughes Summer Research Fellowship |

GRANTS IN SUPPORT OF RESEARCH, TRAINING, & PROGRAM DEVELOPMENT (>\$5.5 million)

National Science Foundation. "*The role of the matrix in fragmented landscapes: experimental tests and novel theory*" (\$525,000; PI: R. Fletcher, Co-PIs: E. M. Bruna, R. D. Holt, and B. Reichert).

UF Informatics Institute SEED Funds: "Cross-National Patterns of Productivity & Collaboration by Latin American Scientists" (\$20,000, PI: E. M. Bruna, Co-PIs: Stephen Perz, Chris McCarty).

Mindlin Foundation. "Who are the Gatekeepers of Discovery? A crowdsourced project to ID & map the editors of academic journals" (\$3633, 2017-2018).

National Geographic Global Exploration Fund. "*Experimental climate change in the Amazon: How will rising CO₂ influence plants, insects, and their interactions?*" (\$19,970, PI: E. M. Bruna, Co-PIs H. Vasconcelos, F. Mundim, D. Lapola).

John Wiley and Sons. "*Funds to support the Biotropica Editorial Office*" (\$199,945; 2014-2019).

UF Center for Latin American Studies Faculty Travel Award (\$1500)

UF Center for Latin American Studies Speakers Program. "*Herton Escobar: Science Correspondent, Estado de São Paulo Newspaper*" (\$2000, including matching funds provided by the College of Journalism and Communications, the Tropical Conservation and Development Program, and Office of the VP for Research).

UF Center for Latin American Studies Faculty Research Award: "*Cross-national patterns of productivity and collaboration by Latin American ecologists*" (\$5450, 2012-2013).

National Science Foundation: "*Doctoral Dissertation Enhancement Proposal: International: Carbon sequestration and tree biodiversity in Amazonian floodplain forests*". (\$11,000; OISE-0929183 to E. Bruna prepared by and for doctoral student Christine Lucas, 2010-2012).

David and Lucile Packard Foundation. "*Nitrogen dynamics in Brazil's Cerrado*" (\$142,198, Grant 2008-32691 to E. Bruna and co-PIs M. Mack and H. Vasconcelos, 2009-2011).

National Science Foundation. "*IGERT in Spatial Ecology & Evolution: Quantitative Training in Biology, Statistics, & Mathematics*". (\$2,958,113; PI: B. Bolker; Co-PI's: E. Bruna, C. Osenberg, M. Martcheva, & M. Christman, 2008-2013).

UF International Center. "*International Speakers Program: Dr. Claudio Padua, 2008 UF Distinguished Alumnus*" (\$1500, with \$3500 in matching funds from Wildlife Ecology and Conservation, Latin American Studies, the Tropical Conservation and Development Program, and Institute for Agricultural and Life Sciences).

US Department of Education Fund for the Improvement of Postsecondary Education (FIPSE). "*Energy, environment, and sustainable development: the central role of the United States and Brazil*" (\$202,329; PI: J. Kahn, Washington & Lee University; E. Bruna is UF Project Director; 2006-2010)

National Science Foundation Collaborative Grant. "*Mechanisms influencing seedling recruitment and establishment in a fragmented Amazonian landscape*" DEB-0614149 to E. Bruna (\$230,888) and DEB-0614339 to M. Uriarte, Columbia Univ. (\$251,831; 2006-10).

National Science Foundation Minority Career Advancement Award. "*Linking population and ecosystem ecology: how does nitrogen deposition influence plant demography in tropical savannas?*" DEB-0542287 (\$174,499; 2006-08).

Joseph Jones Ecological Research Center. "*Productivity and Biodiversity Patterns: Control in a SE Coastal Plain Landscape (Support for the graduate studies of Gwen Iacona)*". (\$19,860; 2005-2007).

National Science Foundation Collaborative Grant. "*Elucidating mechanisms of coexistence in a community of ant-plant mutualists*". DEB-0453631 to E. Bruna (\$245,096) & DEB-0452720 to B. Inouye, FSU (\$260,000; 2005-09).

National Science Foundation Grant OISE-0437369. "*U.S.-Brazil Collaborative Research: Seed predation and herbivory in Neotropical savannas: are there demographic consequences for plants?*" (\$25,012; 2005-2008).

Conselho Nacional de Desenvolvimento Científico e Tecnológico, Brazil. "*Top-down effects on the structure of Cerrado plant communities*" (R\$ 22,875.74, Co-PI, 2005-2007)

Fundação de Amparo a Pesquisa do Estado de Minas Gerais, Brazil. "*Diversity and conservation of invertebrates in the 'Triângulo Mineiro': a case study using ants as bioindicators*" (R\$12,924.13; Senior Collaborator, 2005-2007)

Fundação de Amparo a Pesquisa do Estado de Minas Gerais, Brazil (Fapemig). "*Effect of herbivory by leaf-cutter ants on Cerrado vegetation*" (R\$25,229.74, Co-PI, 2004-2006)

School for Natural Resources and the Environment New Faculty Support Program. "*Seed predation and herbivory in Neotropical savannas: are there demographic consequences for plants?*" (\$5,000; 2004)

Alfred P. Sloan Foundation. "*Increasing the number of minority Ph.D.'s studying Ecology at UF.*" (\$32,440 and four-year Teaching Assistantships from the College of Agricultural and Life Sciences; 2004).

National Science Foundation Research Starter Grant DEB-0309819. "*The effect of forest fragmentation on ant-plant mutualisms.*" \$50,585; 2003-2005).

USAID Subcontract from IIEB. "*Sustainable Communities and Landscapes: A proposed program to sustain natural ecosystems and enhance local livelihoods in Brazil's Amazon and Atlantic Forest regions*" (\$199,145; 10/01/03-9/30/07; PI: Marianne Schmink; EB and 5 other Co-PIs).

Instituto Internacional de Educação do Brasil-SUNY International Development Group. "*Training of young scientists in Amazonia: A new internship program at the Biological Dynamics of Forest Fragments Project.*" (R\$21,000; co-PI Patricia Delamônica, 2001).

National Science Foundation Minority Postdoctoral Research Fellowship DBI-0109226. "*The effect of forest fragmentation on ant-plant mutualisms*" (\$190,200; 2001).

NSF Dissertation Improvement Grant INT 98-06351. "*Effect of habitat fragmentation on the growth, reproduction, and population dynamics of an Amazonian understory herb*" (\$17,600; 1998-2000).

Smithsonian Institution, Manomet Observatory Kathleen S. Anderson Award, Wilson Ornithological Society

Paul A. Stewart Award, and UC Davis (M.E. Mathias Award, Graduate Studies Research Grant, Jastro-Shields Research Award, and Center for Population Biology Summer Research Grant) (Total: \$11860; 1996-1997).

Explorer's Club and UCSD Undergraduate Scholastic Research Grant) (Total: \$1955; 1994-1995).

GRANT PROPOSALS UNDER REVIEW or IN PREPARATION

To be submitted 2019: National Science Foundation. *Small Grant: Synergistic effects of forest fragmentation and droughts on tropical plant population dynamics* (\$199,904; PI: E. M. Bruna, Co-PIs: M. Uriarte).

PEER-REVIEWED PUBLICATIONS AND BOOK CHAPTERS (N = 90)

Note: I do not co-author papers from my students' theses unless I have made contributions substantially beyond the mentoring, fundraising, and editing I consider my fundamental responsibility as their advisor. Moreover, I encourage lab members to engage in side projects, which often result in publications on which I am not a co-author. A list of my lab members' publications on which I am not a coauthor is below.

1. Brooks, M., M. R. Darrigo, P. Rubim, M. Uriarte, E. M. Bruna, B. Bolker. *In press*. Modeling patterns in annual reproductive rates. *Ecology*.
2. Costa, A. N., H. L. Vasconcelos, E. H. M. Vieira-Neto, and E. M. Bruna. *In press*. Adaptive foraging of leaf-cutter ants to spatiotemporal changes in resource availability in Neotropical savannas. ***Ecological Entomology*** [PhD. Thesis Chapter].
3. Costa, A. N., E. M. Bruna, and H. L. Vasconcelos. 2018. The relative influence of an environmental gradient and an ecosystem engineer on seedling communities in a Neotropical savanna. *PeerJ* 6:e5612 [PhD. Thesis Chapter].
4. Bruna, Emilio M. 2018. Editorial board members are a non-random sample of ecological experts. *Nature Ecology and Evolution* 2(2):202 [technical comment on a published article].
5. Espin, J., S. Palmas-Perez, F. Carrasco-Rueda, K. Riemer, J. Ungvari-Martin, P. Allen, N. Berkebile, J. P. Gomez, K. Hecht, K. Kastner-Wilcox, M. Nunez-Regueiro, C. Prince, C. Rios, E. Ross, B. Sangha, T. Tyler, M. Villegas-Bilbao, T. Cataldo, & E. M. Bruna. 2017. A persistent lack of geographic diversity on editorial boards in Biology. *Plos Biology*. 15(12): e2002760
6. Darosci, A. A. B., E. M. Bruna, J. C. Motta-Junior, C. da Silva Ferreira, J. G. Blake & C. B. Rodrigues Munhoz. 2017. Seasonality and the structure of plant-frugivore networks in Neotropical savanna woodlands. *Acta Oecologica* 84:15-22.
7. Rocha-Ortega, M., A. Bartimachi, J. Neves, E.M. Bruna, H. L. Vasconcelos. 2017. Seed removal patterns of pioneer trees in an agricultural landscape. 2017. *Plant Ecology* 218 (6): 737-748.
8. Brudvig, L. A., S. J. Leroux, C. H. Albert, E. M. Bruna, K. F. Davies, R. M. Ewers, D. J. Levey, R. Pardini, and J. Resasco. 2017. Evaluating conceptual models of landscape change. *Ecography* 40(1): 74-84.
9. Resasco, J. E. M. Bruna, N. M. Haddad, C. Banks-Leite, & C.R. Margules. 2017. The contribution of theory and experiments to conservation in fragmented landscapes. *Ecography* 40(1): 109-118.
10. Costa, A. N, H. L. Vasconcelos, and E. M. Bruna. 2017. Biotic-drivers of plant early-recruitment success: selective herbivory by leaf-cutter ants as an ecological filter in Neotropical savannas. *Journal of Ecology*. 105(1): 132-141.

11. Mundim, F. M., H. T. Alborn, E. H.M. Vieira-Neto & E. M. Bruna. 2017. A whole-plant perspective reveals unexpected impacts of above and belowground herbivores on plant growth and defense. *Ecology* 105(1): 132-141.
12. Pitman, N. C. A., J. Widmer, E. M. Bruna, C. N. Jenkins, G. Stocks, L. Seales, F. Paniagua, and E. Maehr. 2017. El sorprendente liderazgo del Ecuador en la producción científica de la región andino-amazónica, pp. 27-30 in D. Romo et al. (eds.), *Los Secretos del Yasuní: Avances en investigación en la Estación de Biodiversidad Tiputini*, Universidad San Francisco de Quito, Quito.
13. Carvalho, K. S., M. A. Ferraz Carneiro, I. Cardoso Nascimento, A. Kumar Saha, E. M. Bruna. 2016. Lower ant diversity on earth mounds in a semi-arid Brazilian ecosystem: natural or a sign of degradation? *Sociobiology* 63(4): 1022-1030.
14. Sobrinho, M. S., M. Tabarelli, I. C. Machado, J. C. Sfair, E. M. Bruna, and A. V. Lopes. 2016. Land use, fallow period and the recovery of a Caatinga forest. *Biotropica*, 48: 586–597.
15. Mundim, F. M. & E. M. Bruna. 2016. Climate change and plant-herbivore interactions: a meta-analysis of experimental studies. *The American Naturalist*. 88(S1): S74-S89. [**2016 UF-WEC "High Impact Publication"**].
16. Vieira-Neto, E. H. M., H. L. Vasconcelos, and E. M. Bruna. 2016. Roads increase population growth rates of a native leaf-cutter ant in Neotropical savannahs. *Journal of Applied Ecology* 53(4): 983-992.
17. Hoeksema, J. D. and E. M. Bruna. 2015. Context-dependent outcomes of mutualistic interactions. Pages 181-202 in *Mutualism*, J. L. Bronstein (ed.). Oxford University Press.
18. Bruna E.M., T.J. Izzo, B. D. Inouye, and H. L. Vasconcelos. 2014. Effect of mutualist partner identity on plant demography. *Ecology* 95:3237–3243 [**Cover Article**].
19. Smith, M. J., C. Weinberger, E. M. Bruna, and S. Allesina. 2014. The scientific impact of nations: journal placement and citation performance. *PLoS ONE* 9(10): e109195.
20. Cho, A. H., S. A. Johnson, C. E. Schuman, J. M. Adler, O. Gonzalez, S. J. Graves, J. R. Huebner, D. B. Marchant, S. W. Rifai, I Skinner, and E. M. Bruna. 2014. Women are underrepresented on editorial boards in environmental biology and natural resource management. *PeerJ*: 2:e542 [**Named to the 2015 PeerJ Picks Collection (20 articles of the 471 published in 2014)**].
21. Braunger Vasconcelos, P., G. Monteiro de Araújo, and E. M. Bruna. 2014. The role of roadsides in conserving Cerrado plant diversity. *Biodiversity & Conservation* 23:3035-3050.
22. Girão, L. C., A. V. Lopes, M. Tabarelli, and E. M. Bruna. 2014. Mudanças em atributos reprodutivos de árvores reduzem a diversidade funcional em uma paisagem fragmentada de floresta Atlântica pp. 145-174 in *Serra Grande: Uma Floresta de ideias*. M. Tabarelli, A. V. Neto, I. R. Leal, and A. V. Lopes (Eds.). Editora Universitária da UFPE. Recife. [*translation of Girão et al. 2007, PLoS ONE*].
23. Araújo, Glein M., A. F. Amaral, E. M. Bruna, and H. L. Vasconcelos. 2013. Fire drives the reproductive responses of herbaceous plants in a Neotropical swamp. *Plant Ecology* 214(12): 1479-1484.
24. Côrtes, M., M. Uriarte, M. Lemes, R. Gribel, W. J. Kress, P. Smouse, E. M. Bruna. 2013. Low plant density enhances gene flow in the Amazonian understory herb *Heliconia acuminata*. *Molecular Ecology* 22: 5716-5729.
25. Jurinitz, C. F., E. M. Bruna, and A. A. Oliveira. 2013. Synergistic effects of canopy openness, litter depth and ontogeny on seedling performance in forest fragments. *Biotropica* 45(6): 728-736.

26. Lucas, C. M. E. M. Bruna, and C. M. Nunes-Nascimento. 2012. Seedling co-tolerance of multiple stressors in a disturbed tropical floodplain forest. *Ecosphere* 4(1): art3.
27. Vasconcelos, H. L. and E. M. Bruna. 2012. Arthropod responses to the experimental fragmentation of an Amazonian forest. *Zoologia* 29(6): 515-530 [Invited review paper].
28. Passmore, H. A., E. M. Bruna, S. Heredia, and H. L. Vasconcelos. 2012. Mutualistic networks in a fragmented Amazonian landscape. *PLoS ONE* 7(8): e40803
29. Iacona, G. D., L. K. Kirkman, and E. M. Bruna. 2012. Experimental test for facilitation of seedling recruitment by the dominant bunchgrass in a fire-maintained savanna. *PLoS ONE* 7(7): e39108
30. Mundim, F. M., E. M. Bruna, E. H. M. Vieira-Neto, and H. L. Vasconcelos. 2012. Attack frequency and the tolerance to herbivory of Neotropical savanna trees. *Oecologia* 168: 405-414.
31. Copeland, S. M. E. M. Bruna, L. V. Barbosa, M. C. Mack, and H. L. Vasconcelos. 2012. Effects of experimentally elevated precipitation and nitrogen on soil fertility and plant growth in a Neotropical savanna. *Ecosphere* 3(4):31.
32. Palumbo, M. J., S. A. Johnson, F. M. Mundim, A. C. Wolf, S. Arunachalam, O. Gonzalez, A. Lau, J. L. Ulrich, A. Washuta, E. M. Bruna. 2012. Harnessing smartphones for ecological education, research, and outreach. *Bulletin of the Ecological Society of America* 93(4): 390-393.
33. Bruna, E. M. and A. Segalin de Andrade. 2011. Phenotypic plasticity in plant responses to edge effects: experimental test with an Amazonian understory herb. *American Journal of Botany* 98(10):1727-1734.
34. Bruna, E. M., T. Izzo, B. Inouye, M. Uriarte, & H. L. Vasconcelos. 2011. Assymetric dispersal capability of Amazonian plant-ant queens. *PLoS ONE* 6(8): e22937.
35. Uriarte, M. Anciães, M. T.B. da Silva, P. Rubim, E. Johnson, and E. M. Bruna. 2011. Disentangling the drivers of reduced long-distance seed dispersal by birds in an experimentally fragmented landscape. *Ecology* 92(4): 924-93. **[2012 Outstanding Paper in Landscape Ecology, Int. Assoc. for Landscape Ecology - US Chapter]**
36. Ferreira, A.V., E. M. Bruna, and H. L. Vasconcelos. 2011. Seed predators limit plant recruitment in Neotropical savannas. *Oikos* 120: 1013-1022.
37. W. F. Laurance, J. L. C. Camargo, R. C. C. Luizão, S. G. Laurance, S. L. Pimm, E. M. Bruna, P. C. Stouffer, G. B. Williamson, J. Benitez-Malvido, H. Vasconcelos, K. Van Houtan, C. E. Zartman, S. A. Boyle, R. Didham, A. Andrade, and T. E. Lovejoy. 2011. The fate of Amazonian forest fragments: a 32-Year investigation. *Biological Conservation* 144(1) 56-67. **[Highlighted as "Exceptional" by the Faculty of 1000]**
38. Pitman, N. C. A., J. Widmer, C. N. Jenkins, G. Stocks, L. Seales, F. Paniagua, & E. M. Bruna. 2011. Volume and geographical distribution of ecological research in the Andes and the Amazon, 1995-2008. *Tropical Conservation Science* 4(1): 64-81.
39. Gagnon, P. R., E. M. Bruna, P. Rubim, M. R. Darrigo, R. C. Littlele, M. Uriarte, and W. J. Kress. 2011. The growth of an understory herb is chronically reduced in Amazonian forest fragments. *Biological Conservation* 144: 830-835.
40. Bruna, E. M. J. F. Guimarães, C. T. Lopes, R. Pacheco, A. C. Lemos Gomes, S. C. S. Belentani, K. G. Facure, and H. L. Vasconcelos. 2010. Mammalia, Estação Ecológica do Panga, a Cerrado protected area in Minas Gerais state, Brazil. *CheckList: A Journal of Species Lists and Distribution* 6(4): 668-675.

41. Quitete Portela, R. de Cássia, E. M. Bruna, and F. A. Maës dos Santos. 2010. Are protected areas really protecting populations? A test with an Atlantic rain forest palm. *Tropical Conservation Science*. 3(4): 361-372
42. Nogueira Ribeiro, M. B., E. M. Bruna, W. Mantovani. 2010. Influence of post-clearing treatment on the recovery of herbaceous plant communities in Amazonian secondary forests. *Restoration Ecology* 18(S1):50-58
43. Quitete Portela, R. de Cássia, E. M. Bruna, and F. A. Maës dos Santos. 2010. Population growth rates and perturbation analysis of three palm species in Atlantic Rain Forest fragments: a landscape approach. *Biodiversity and Conservation* 19: 2389-2403.
44. Uriarte, M., E. M. Bruna, P. Rubim, M. Anciaes, and I. Jonckheere. 2010. Effects of forest fragmentation on seedling recruitment of an understory herb: assessing seed vs. safe-site limitation. *Ecology* 91(5):1317-1328.
45. Iacona, G. D., L. K. Kirkman, and E. M. Bruna. 2010. Effects of resource availability on patterns of ground cover seedling recruitment in a fire maintained savanna. *Oecologia* 163: 171-180.
46. Fiske, I. and E. M. Bruna. 2010. Alternative spatial sampling in studies of plant demography: consequences for estimates of population growth rate. *Plant Ecology* 207(2) 213-225.
47. Fortini, L. B., E. M. Bruna, D. J. Zarin, S. S. Vasconcelos, I. S. Miranda. 2010. Altered resource availability and the population dynamics of secondary forest tree species in the Eastern Amazon. *Oecologia* 162(4): 923-934.
48. Izzo, T. J., E. M. Bruna, H. L. Vasconcelos, and B. D. Inouye. 2009. Cooperative colony founding alters the likelihood of interspecific competition between Amazonian plant-ants. *Insectes Sociaux* 56:341-345.
49. de Cardoso, E. M. I. Cruzeiro Moreno, E. M. Bruna & H. L. Vasconcelos. 2009. Vegetation dynamics in the Cerrado: 18 years of ecological succession at Estação Ecológica do Panga (Uberlândia, MG). *Caminhos de Geografia* 10(32) 254-268.
50. Vasconcelos, H. L. R. Pacheco, R. C. Silva, P. B. Vasconcelos, C. T. Lopes, A. N. Costa & E. M. Bruna. 2009. Dynamics of the leaf-litter arthropod fauna following fire in a Neotropical woodland savanna. *PLoS ONE* 4(11): e7762.
51. Dáttilo, W.F. C., T. J. Izzo, B. D. Inouye, H. L. Vasconcelos & E. M. Bruna. 2009. Volatile recognition by *Pheidole minutula* (Myrmicinae), an Amazonian ant-plant specialist. *Biotropica* 41(5): 642-646.
52. Kainer, K. A. M. DiGiano, A. Duchelle, L. H. O. Wadt, E. M. Bruna, and J. L. Dain. 2009. Partnering for greater success: Local stakeholders and research in tropical biological and conservation. *Biotropica* 41(5): 555-562.
53. Côrtes, M., V. Gowda, W. J. Kress, E. M. Bruna, & M. Uriarte. 2009. Characterization of 10 microsatellite markers for the understory Amazonian herb *Heliconia acuminata*. *Molecular Ecology Resources* 9(4): 1261-1264.
54. Callis, K. L., L. R. Christ, J. Resasco, D. W. Armitage, J. D. Ash, T. T. Caughlin, S. F. Clemmensen, S. M. Copeland, T. J. Fullman, R. L. Lynch, C. Olson, R. A. Pruner, E. H. M. Vieira-Neto, R. West-Singh, and E. M. Bruna. 2009. Improving Wikipedia: educational opportunity and professional responsibility. *Trends in Ecology and Evolution* 24(4): 177-179.
55. Bruna, E. M., I. J. Fiske and M. Trager. 2009. Effect of habitat fragmentation on plant populations: is what we know demographically irrelevant? *Journal of Vegetation Science* 20: 569-576.

56. Fiske, I., E. M. Bruna, and B. M. Bolker. 2008. Effect of sample size on estimates of population growth rates calculated with matrix models. *PLoS ONE* 3(8): e3080.
57. Costa, A. N., H. L. Vasconcelos, E. H. M. Vieira-Neto, and E. M. Bruna. 2008. Do herbivores exert top-down effects in Neotropical savannas? Estimates of biomass consumption by leaf-cutter ants (*Atta* spp.) in a Brazilian Cerrado site. *Journal of Vegetation Science* 19: 849-854.
58. Bruna, E. M., M. R., Darrigo, A. M. Furuya Pacheco, and H. L. Vasconcelos. 2008. The defensive responses of ant mutualists to plant volatiles are species-specific. *Biological Journal of the Linnean Society* 94:241-249.
59. Stocks, G., L. Seales, F. Paniagua, E. Maehr, and E. M. Bruna. 2008. The geographical and institutional distribution of ecological research in the tropics. *Biotropica* 40(4): 397-404.
60. Morris, W. F., C. A. Pfister, S. Tuljapurkar, C. V. Haridas, C. Boggs, M. S. Boyce, E. M. Bruna, D. R. Church, T. Coulson, D. F. Doak,, S. Forsyth, J-M. Gaillard, C. C. Horvitz, S. Kalisz, B. E. Kendall, T. M. Knight, C. T. Lee, E. S. Menges. 2008. Longevity can buffer plant and animal populations against changing climatic variability. *Ecology* 89(1): 19-25.
61. Vasconcelos, H. L., A. N. Costa, E. H. M. Vieira-Neto, and E. M. Bruna. 2008. Efeitos da herbivoria por formigas do gênero *Atta* Fabricius, 1804 (Hymenoptera: Formicidae) sobre a vegetação do Cerrado. Pp. 301-311 *In: Insetos Sociais: da biologia a aplicação*. Vilela, E.F.; Santos, I.A.; Schoereder, J.H.; Lino Neto, J.; Campos, L.A.O. & Serrão, J.E. (Eds.). Editora da Univ. Federal de Viçosa. Viçosa, MG.
62. Girão, L. C., A. V. Lopes, M. Tabarelli, and E. M. Bruna. 2007. Changes in tree reproductive traits reduce functional diversity in a fragmented Atlantic Forest landscape. *PLoS ONE* 9:eg08.
63. De Athayde, Simone Ferreira, G. M. da Silva, J. Kaiabi, M. Kaiabi, H. R. De Souza, E. M. Bruna, and K. Ono. 2006. Participatory management of "Arumã" (*Ischnosiphon gracilis*, Marantaceae) amongst the Kaiabi people in the Brazilian Amazon. *The Journal of Ethnobiology* 26(1): 36-60 **[Cover article]**.
64. Trager, M. and E. M. Bruna. 2006. Effects of plant age, experimental nutrient addition, and ant occupancy on herbivory in a Neotropical myrmecophyte. *Journal of Ecology* 94: 1156-1163.
65. Vasconcelos, H. L. E. H. M. Vieira-Neto, F. M. Mundim, and E. M. Bruna. 2006. Roads alter the colonization dynamics of a keystone herbivore in Neotropical savannas. *Biotropica* 38(5):661-665. **[Recipient of the Julie S. Denslow Prize from the Association for Tropical Biology and Conservation]**
66. Boyce, M. S. C. V. Haridas, C. Lee, and the NCEAS Stochastic Demography Working Group (C. L. Boggs, E. M. Bruna, T. Coulson, D. Doak, J. M. Drake, J-M. Gaillard, C. C. Horvitz, S. Kalisz, B. E. Kendall, T. Knight, E. S. Menges, W. F. Morris, C. A. Pfister, S. D. Tuljapurkar). 2006. Demography in an increasingly variable world. *Trends in Ecology and Evolution* 21(3): 141-148.
67. Kainer, K. A., M. Schmink, J. R. Stepp, H. Covert, E. M. Bruna, J. L. Dain, S. Espinosa, and S. Humphries. 2006. A framework for graduate education for tropical conservation and development. *Conservation Biology* 20(1): 3-13.
68. Bruna, E. M., and M. B. Nogueira Ribeiro. 2005. The compensatory responses of an understory herb to experimental damage are habitat-dependent. *American Journal of Botany* 92(12): 2101-2106.
69. Doak, D. F. W. F. Morris, C. A. Pfister, B. Kendall, and E. M. Bruna. 2005. Correctly estimating how environmental stochasticity influences fitness and population growth. *American Naturalist* 166(1): E14-25. **[Highlighted as a "Must Read" by the Faculty of 1000]**

70. Bruna, E. M. and M. K. Oli. 2005. Demographic consequences of habitat fragmentation for an Amazonian understory plant: analysis of life-table response experiments. *Ecology* 86(7): 1816-1824.
71. Lapola, D. M., E. M. Bruna, C. G. de Willink, and H. L. Vasconcelos. 2005. Ant-tended hemiptera in Amazonian myrmecophytes: patterns of abundance and implications for mutualism function. *Sociobiology* 46(2): 433-442.
72. Bruna, E. M., H. L. Vasconcelos, and S. Heredia. 2005. The effect of habitat fragmentation on communities of mutualists: a test with Amazonian ants and their host plants. *Biological Conservation* 124(2005): 209-216.
73. Bruna, E. M. and M. B. Nogueira-Ribeiro. 2005. Regeneration and population structure of *Heliconia acuminata* in Amazonian secondary forests with contrasting land-use histories. *Journal of Tropical Ecology* 21:127-131.
74. Bruna, E. M. & W. J. Kress. 2005. Forest fragments and plant reproduction in Amazonian Brazil. Pp. 141-146 in G. A. Krupnick & W. J. Kress, eds. *Plant conservation: a natural history approach*. U. of Chicago Press.
75. Bruna, E. M., W. J. Kress, F. Marques, and O. F. da Silva. 2004. *Heliconia acuminata* reproductive success is independent of local floral density. *Acta Amazonica* 34(3): 467-471 **[Cover article]**.
76. Lapola, D. M., E. M. Bruna, and H. L. Vasconcelos. 2004. Amizade tênue: relações mutualísticas entre plantas e formigas na Amazônia. *Ciência Hoje* 34(204): 28-33.
77. Bruna, E. M., D. M. Lapola, and H. L. Vasconcelos. 2004. Interspecific variation in defensive responses of obligate ant-plant inhabitants: are there consequences for host plants? *Oecologia* 238:558-565.
78. Nakazono, E., E. M. Bruna, and R. C. G. Mesquita. 2004. Experimental harvesting of Arumã (*Ischnosiphon polyphyllus*, Marantaceae), a nontimber forest product in the central Amazon. *Forest Ecology and Management* 190:219-225.
79. Bruna, E. M. 2004. Biological impacts of deforestation and fragmentation. Pages 85-90 in *The Encyclopaedia of Forest Sciences*. J. Burley, J. Evans, and J. Youngquist, (eds.). Elsevier Press, London.
80. Lapola, D. M., E. M. Bruna, and H. L. Vasconcelos. 2003. Contrasting induced responses by ants inhabiting *Maieta guianensis* (Melastomataceae). *Biotropica* 35(2):295-300.
81. Bruna, E. M. 2003. Are plant populations in fragmented habitats recruitment limited? Tests with an Amazonian herb. *Ecology*, 84(4): 932-947.
82. Bruna, E. M. and W. J. Kress. 2002. Habitat fragmentation and the demographic structure of an Amazonian understory herb (*Heliconia acuminata*). *Conservation Biology*, 16(5): 1256-1266.
83. Bruna, E. M., O. Nardy, S. Y. Strauss, and S. P. Harrison. 2002. Experimental assessment of *Heliconia acuminata* growth in a fragmented Amazonian landscape. *Journal of Ecology*, 90(4): 639-649. **[Recipient of the John L. Harper Prize from the British Ecological Society]**.
84. Bruna, E. M. 2002. Effects of forest fragmentation on *Heliconia acuminata* seedling recruitment in the central Amazon. *Oecologia*, 132:235-243.
85. Laurance, W.F., T. E. Lovejoy, H. L. Vasconcelos, E. M. Bruna, R. K. Didham, P. C. Stouffer, C. Gascon, R. O. Bierregaard, S. G. Laurance, and E. Sampaio. 2002. Ecosystem decay of Amazonian forest fragments: A 22-year investigation. *Conservation Biology*, 16(3): 605-618.

86. Hoeksema, J. D. and E. M. Bruna. 2000. Pursuing the big questions about interspecific mutualism: a review of theoretical approaches. *Oecologia*, 125: 321-330.
87. Bruna, E. M. 1999. Seeds in rainforest fragments. *Nature*, 402:139
88. Harrison, S. and E. Bruna. 1999. Habitat fragmentation and large-scale conservation: what do we know for sure? *Ecography*, 22: 225-232.
89. Bruna, E. M., R. N. Fisher, and T. J. Case. 1996. Morphological and genetic evolution appear decoupled in Pacific skinks (*Emoia*). *Proc. Roy. Soc. Lond. B*, 263:681-688 [Cover article].
90. Bruna, E. M., R. N. Fisher, and T. J. Case. 1996. New evidence of habitat segregation between cryptic species of Pacific skinks (*Emoia cyanura* and *E. impar*). *Copeia*, 1996: 998-1005.
91. Bruna, E. M., R. N. Fisher, and T. J. Case. 1995. Cryptic species of Pacific skinks (*Emoia*): further support from Mitochondrial DNA sequence data. *Copeia*, 1995: 981-983.

ESSAYS, EDITORIALS, & OTHER SCHOLARLY COMMUNICATIONS (N=17)

1. K. R. Zamudio, A. Kellner, C. Serejo, M. R. de Britto, C. B. Castro, P. A. Buckup, D. O. Pires, M. Couri, A. Brilhante Kury, I. Azevedo Cardoso, M. L. Monné, J. Pombal Jr., C. Mello Patiu, V. Padula, A. Dias Pimenta, R. Ventura, E. Hajdu, J. Zanol, E. M. Bruna, J. Fitzpatrick, L. A. Rocha. 2018. Lack of support for Science and Education Fails Brazilian Society – Again. *Science*. [Letter to the Editor].
2. Bruna, Emilio M. 2017. Invasive new US visa rules hurt Americans too. *Americas Quarterly*. <http://www.americasquarterly.org/content/academic-collaboration> [Invited Essay].
3. Harms, Kyle, J. Benitez-Malvido, & E. M. Bruna. 2017. 2016 Alwyn Gentry Awards and Luis F. Bacardi Award Recipients. *Biotropica* [Editorial].
4. Bruna, E. M. 2016. *Biotropica* renames its "Outstanding Paper" awards for two pioneering scientists. *Biotropica* 48(6): 929 [Editorial].
5. Parker, T. H., Nakagawa, S., Gurevitch, J. and IIEE (Improving Inference in Evolutionary Biology and Ecology) workshop participants. 2016. Promoting transparency in evolutionary biology and ecology. *Ecology Letters*, 19: 726–728 [Editorial].
6. Whitlock, M. C., J. L. Bronstein, E. M. Bruna, A. M. Ellison, C. W. Fox, M. A. McPeck, A. J. Moore, M. A. F. Noor, M. D. Rausher, L. H. Rieseberg, M. G. Ritchie, and R. G. Shaw. 2016. A balanced data archiving policy for long-term studies. *Trends in Ecology and Evolution*, 31(2) 84-85 [Response to article].
7. E. M. Bruna, M. Peña-Claros, Bryan Finega, and B. A. Kaplin. 2016. A New Data Archiving Policy for *Biotropica*. *Biotropica*, 48(2): 139-140. [Editorial].
8. E. M. Bruna. 2014. *Biotropica* to become an 'online-only' journal in 2015. *Biotropica* 46(6): 782. [Editorial].
9. E. M. Bruna. 2014. 2014 Alwyn Gentry Awards, Luis F. Bacardi Award, and ATBC Honorary Fellows. *Biotropica* 46(6): 779-781. [Editorial].
10. E. M. Bruna. 2014. A word from the Editor-in-Chief. *Biotropica* 46(4): 377 [Editorial].

11. V. Christianini, P. S. Oliveira, E. M. Bruna, H. L. Vasconcelos. 2014. Fauna in decline: Meek shall inherit. *Science* 354(6201):1129 [Commentary on published article].
12. Bruna, E. M. 2014 On identifying rising stars in biology. *Bioscience*. 64(3):169 [Commentary on published article].
13. Bruna, E. M. 2010. Journals can advance tropical biology and conservation by requiring data archiving. *Biotropica* 42(4): 399–401 [Editorial].
14. Bruna, E. M. 2010. Announcement: *Biotropica* Award for Excellence in Tropical Biology and Conservation. *Biotropica* 42(4): 518–519 [Editorial].
15. Bruna, E. M. and K. A. Kainer. 2005. A delicate balance in Amazonia. *Science* 307:1044-1045. [Response to published article].
16. Bruna, E. M. 2003. "For the Love of Nature". *Science's Next Wave Online Magazine*. [Invited essay].
17. Bruna, E. M. 2002. A biologist's guide to fragmenting the Amazon (including why it's a bad idea). *Conservation Biology*, 16(5): 1446-1448. [Book review].

PUBLICATIONS BY LAB MEMBERS (N = 16; see co-authorship philosophy above; lab member underlined).

1. Costa, A. N. and Vieira-Neto, E. H. M. 2016. Species turnover regulates leaf-cutter ant densities in environmental gradients across the Brazilian Cerrado. *Journal of Applied Entomology* 140(2016):474-478.
2. M. Tabarelli, A. V. Neto, I. R. Leal, and A. V. Lopes (Eds.). 2014. *Serra Grande: Uma Floresta de ideias*. Editora Universitária da UFPE. Recife. 672 pp.
3. Cruz Neto O, Aguiar AV, Twyford AD, Neaves LE, Pennington RT, and Lopes AV. 2014. Genetic and ecological outcomes of *Inga vera* subsp *affinis* (Leguminosae) Tree plantations in a fragmented tropical landscape. *PLoS ONE* 96: e99903.
4. Lucas CM, Schoengart J, Sheikh P, Wittmann F, Piedade MTF, and McGrath DG. 2014. Effects of land-use and hydroperiod on aboveground biomass and productivity of secondary Amazonian floodplain forests. *Forest Ecology and Management* 319:116-127. [Ph.D. thesis chapter].
5. Soares SM, Machado IC, Aguiar AV, and Lopes AV. 2014. Dioecy in the Caatinga, a Brazilian tropical dry forest: typical reproductive traits of a low frequent sexual system. *Plant Systematics and Evolution* 300:1299-1311.
6. Tabarelli M, Aguiar AV, Robeiro MC, and Metzger JP. 2012. A conversão da floresta atlântica em paisagens antrópicas: lições para a conservação da diversidade biológica das florestas tropicais. *Interciencia* 37:88-92.
7. Lucas CM, Mekdece F, Nascimento CMN, Holanda A-SS, Braga J, Dias S, Sousa S, Rosa PS, and Suemitsu C. 2012. Effects of short-term and prolonged saturation on seed germination of Amazonian floodplain forest species. *Aquatic Botany* 99:49-55. [Ph.D. thesis chapter].
8. Horn, M., S.B. Correa, P. Parolin, B.J.A. Pollux, J.T. Anderson, C. Lucas, P. Widmann, A. Tiju, M. Galetti, and M. Goulding. 2011. Seed dispersal by fishes in tropical and temperate waters: the growing evidence. *Acta Oecologia* 37:561-577.
9. Tabarelli M, Aguiar AV, Ribeiro MC, Metzger JP, and Peres CA. 2010. Prospects for biodiversity conservation

- in the Atlantic Forest: lessons from aging human-modified landscapes. *Biological Conservation* 143:2328-2340.
10. Gagnon, P.R., Passmore, H.A., Platt, W.J., Paine, C.E.T., Myers, J.A. and Harms, K.E. 2010. Does pyrogenicity protect burning plants? *Ecology* 91: 3481-3486 **[Cover Article]**.
 11. Trager, M. D., S. Bhotika, J. A. Hostetler, G. V. Andrade, M. A. Rodriguez-Cabal, C. S. McKeon, C. W. Osenberg, and B. M. Bolker. 2010. Benefits for plants in ant-plant protective mutualisms: A meta-analysis. *PLoS ONE* 5:e14308.
 12. Parolin P, C. Lucas, M.T.F. Piedade, & F. Wittmann. 2010. Drought responses of flood-tolerant trees in Amazonian Floodplains. 2010. *Annals of Botany* 105(1):129-39. [Invited article]
 13. Aguiar AV, and Tabarelli M. 2010. Edge effects and seedling bank depletion: the role played by the early successional palm *Attalea oleifera* (Arecaceae) in the Atlantic Forest. *Biotropica* 42:158-166.
 14. Duchelle, A.E., K. Biedenweg, C. Lucas, J. Radachowsky, D. Wojcik, M. Londres, D. Alvira, W. Bartels, A. Virapongse, and K.A. Kainer. 2009. Graduate students and knowledge exchange with local stakeholders: Possibilities and preparation. *Biotropica* 41(5): 578-585.
 15. Lucas, C.M. 2008. Within flood season variation in fruit consumption and seed dispersal by two characin fishes of the Amazon. *Biotropica* 40(5): 581–589.
 16. Hartter, J., C. Lucas, A. Gaughan, and L.L. Aranda. 2008. Detecting tropical dry forest succession in a shifting cultivation mosaic of the Yucatán Peninsula, Mexico. *Applied Geography* 28: 134-149.

PUBLICLY ARCHIVED DATASETS & CODE (N=20)

1. Costa et al. (2018) Data from: The relative influence of an environmental gradient and an ecosystem engineer on seedling communities in a Neotropical savanna. Dryad Digital Repository <https://doi:10.5061/dryad.vf1gqoq>
2. Emilio M. Bruna. (2018, September 13). embruna/Costa-et-al-PeerJ-2018: First release of code used in Costa et al 2018 PeerJ (Version v1.0.0). Peerj. Zenodo. <http://doi.org/10.5281/zenodo.1418482>
3. Espin, J., et al. (2017) Data from: A persistent lack of international representation on editorial boards in environmental biology. Dryad Digital Repository. <https://doi.org/10.5061/dryad.mh189>
4. Bruna, E. M. 2017. Code (v1.0) used in "A persistent lack of international representation on editorial boards in environmental biology, Espin et al." Zenodo <http://doi.org/10.5281/zenodo.1067800>
5. Vieira-Neto EHM, Vasconcelos HL, Bruna EM (2016) Data from: Roads increase population growth rates of a native leaf-cutter ant in Neotropical savannahs. *Journal of Applied Ecology* <https://doi.org/10.5061/dryad.1s4f2>
6. Costa AN, Vasconcelos HL, Bruna EM (2016) Data from: Biotic-drivers of seedling establishment in Neotropical savannas: selective granivory and seedling herbivory by leaf-cutter ants as an ecological filter. *Journal of Ecology* <https://doi.org/10.5061/dryad.1hj56>
7. Mundim FM, Bruna EM (2016) Data from: Is there a temperate bias in our understanding of how climate change will alter plant-herbivore interactions? A meta-analysis of experimental studies. *The American Naturalist* <https://doi.org/10.5061/dryad.dno48>

8. Bruna EM, Izzo TJ, Inouye BD, Vasconcelos HL (2014) Data from: Effect of mutualist partner identity on plant demography. *Ecology* <https://doi.org/10.5061/dryad.5kc45>
9. Bruna E.M. 2014. Code (v1.0) used in "Effect of mutualist partner identity on plant demography. *Ecology*". Zenodo: [doi:10.5281/zenodo.11650](https://doi.org/10.5281/zenodo.11650). Available for improvement at <https://github.com/embruna/ant-plant-demography>.
10. Cho AH, Johnson SA, Schuman CE, Adler JM, Gonzalez O, Graves SJ, Huebner JR, Marchant DB, Rifai SW, Skinner I, Bruna EM (2014) Data from: Women are underrepresented on the editorial boards of journals in environmental biology and natural resource management. *PeerJ* <https://doi.org/10.5061/dryad.6jn86.2>
11. Cho et al. 2014. Code used in "Women are underrepresented on the editorial boards of journals in environmental biology and natural resource management. *PeerJ*": <https://github.com/embruna/Editorial-Board-Gender>
12. Corrêa Côrtes M. et al. 2013. Low plant density enhances gene dispersal in the Amazonian understory herb *Heliconia acuminata*. *Molecular Ecology* Dryad Digital Repository: [doi:10.5061/dryad.b003f](https://doi.org/10.5061/dryad.b003f)
13. Passmore, H. A et al. 2012. Data from: Resilient networks of ant-plant mutualists in Amazonian forest fragments. *PLoS ONE*. [doi:10.5061/dryad.pf2r](https://doi.org/10.5061/dryad.pf2r)
14. Copeland, S. M. et al. 2012. Data from: Effects of experimentally elevated precipitation and nitrogen on soil fertility and plant growth in a Neotropical savanna. *Ecosphere*. Dryad Digital Repository: [doi:10.5061/dryad.dg380p9q](https://doi.org/10.5061/dryad.dg380p9q)
15. Bruna EM, et al. 2011. Data from: Asymmetric dispersal and colonization success of Amazonian plant-ants queens. *PLoS ONE*. Dryad Digital Repository. [doi:10.5061/dryad.h6t7g](https://doi.org/10.5061/dryad.h6t7g)
16. Bruna, E. M. and A. Segalin de Andrade. 2011. Data from: Phenotypic plasticity in plant responses to edge effects: experimental test with an Amazonian understory herb. *American Journal of Botany*. Dryad Digital Repository: [doi:10.5061/dryad.553hc134](https://doi.org/10.5061/dryad.553hc134)
17. Microsatellite sequences from Cortes, MC et al. 2009. Characterization of 10 microsatellite markers for the understory Amazonian herb *Heliconia acuminata*. *Molecular Ecology Resources*. [Genbank](https://www.ncbi.nlm.nih.gov/genbank/).
18. Stocks G. et al. 2008. Data from: The geographical and institutional distribution of ecological research in the tropics. *Biotropica*. Dryad Digital Repository: [doi:10.5061/dryad.9097](https://doi.org/10.5061/dryad.9097)
19. Sequences used in Mitochondrial DNA sequences from Bruna, E. M. et al. 1996. Morphological and genetic evolution appear decoupled in Pacific skinks (*Emoia*). *Proc. Roy. Soc. Lond. B*: [Genbank](https://www.ncbi.nlm.nih.gov/genbank/).
20. *Heliconia acuminata* Demographic Data. Seed set: <http://dx.doi.org/10.6084/m9.figshare.1273926> Leaf Length vs. Area: <http://dx.doi.org/10.6084/m9.figshare.92691>

MANUSCRIPTS & OTHER PRODUCTS IN REVIEW or REVISION (N=9, available upon request)

1. Fletcher, Jr., R. J., J. A. Sefair, C. Wang, C Poli, E. M. Bruna, T. Smith, R. D. Holt, M. Barfield, A. J. Marx, M. A. Acevedo. *In review*. Toward a unified framework for connectivity that disentangles movement and mortality in space and time.
2. da Costa, A. N., A. Bartimachi, E. H. M. Vieira-Neto, H. L. Vasconcelos, and E. M. Bruna. *In review*. Annual

litter production in a Brazilian Cerrado woodland savanna. *Brazilian Journal of Botany*.

3. Barbosa Silva, L. V., H. L. Vasconcelos, M. C. Mack, A. de Siqueira Ferreira, and E. M. Bruna. *In review* Effects of experimental nitrogen enrichment on soil properties and litter decomposition in a Neotropical savanna. *Biotropica*.
4. Fournier, A., F. Stevens, M. Boone, and E. M. Bruna. *In review*. `refsplitr`: tools for organization and visualization of data from bibliometric databases. *Journal of Open Source Software*. Available with package repository at <https://github.com/embruna/refsplitr>
5. Fournier, A., F. Stevens, M. Boone, and E. M. Bruna. *In review*. Package `refsplitr`. *ROpenSci.org* (review prior preparation for submission to the Comprehensive R Archive Network (CRAN) [software package]. Package repository available at <https://github.com/embruna/refsplitr>
6. Goring, S., K.S. Whitney, E. M. Bruna, A. L. Jacob, and T. Poisot. *In revision*. Ten Simple Rules to Make Scientific Content More Accessible. *EOS*. Preprint available at: DOI: [10.22541/au.150844289.92609826](https://doi.org/10.22541/au.150844289.92609826)
7. Bruna, E. M., R. L. Chazdon, T. M. Errington, and B. A. Nosek. *In revision*. Reproducibility & repeatability in tropical biology: a call to repeat foundational studies. *Biotropica*. Preprint available at: <https://osf.io/dbpsz>
8. Tolentino, M., M. Anciães, E. M. Bruna, and M. Uriarte. *In revision*. Local and landscape factors mediate reproductive success of *Heliconia acuminata* in a fragmented landscape. *Landscape Ecology*.
9. Corrêa Côrtes, M., M. Uriarte, W. J. Kress, J. B. Illian, and E. M. Bruna. *In revision*. Why are the spatial distribution of individual plants and genotypes decoupled? A framework to assess the contribution of ecological interactions and environmental filtering. *Ecology Letters* [PhD. Thesis Chapter].

MANUSCRIPTS IN PREPARATION (N=9, drafts available upon request).

1. E. S. Parsons and E. M. Bruna. Assessing the magnitude of abiotic edge effects in fragmented landscapes: revisiting the paradigm with data. In preparation for *Biological Conservation* [MA Thesis chapter].
2. E. M. Bruna, M. Uriarte, and W. J. Kress. Abundance and demography of the understory herb *Heliconia acuminata* (Heliconiaceae) in an experimentally fragmented landscape in the Central Amazon (1997-2009). In preparation for *Ecology*.
3. E. H. M. Vieira-Neto, F. M. Mundim, and E. M. Bruna. Closed and open demographic models give contrasting patterns of inter-population dynamics in a long-lived superorganism. In preparation for *Ecology*.
4. Bruna, E. M. and W. Hahn. *In preparation*. Is Latin American ecology really on the rise? Cross-national patterns of productivity and collaboration by Latin American scientists. *In preparation for PLoS Biology*.
5. Rubim, P., D. M. S. Matos, M. Uriarte, and E. M. Bruna. Local density influences the growth of seedlings of an Amazonian understory herb. *In preparation for Biotropica* [PhD. Thesis Chapter].
6. Rubim, P. R., M. Uriarte, O. Ferreira, and E. M. Bruna. Neighborhood effects and the reproductive effort of a tropical perennial herb. *In preparation for Ecology* [PhD. Thesis Chapter].
7. Ferreira, A. M. A. P. Faria, H. L. Vasconcelos, E. M. Bruna, A. S. Franco Pinheiro Moreira. Effect of nitrogen deposition on metabolism, biomass increase and species richness in a grass community of the Brazilian Cerrado. *In preparation for Plant & Soil*.

8. Rodrigues, D. R., Y. R. Bovolenta, E. M. Bruna, J. A. Pimenta, and E. Bianchini. Coexistence of understory tree species via architecture differentiation in the Atlantic Forest of southern Brazil. *In preparation for Plant Ecology*.
9. Loiselle, B. A., E. M. Bruna, R. Buschbacher, and S. Athayde. *In prep.* How can Brazilian Studies and partnerships with Brazilian institutions shape the perception of tropical conservation and development issues at US universities? Lessons from the University of Florida. *Brazilian Studies in the United States: The road ahead*. Yale University, FGV, and The Ministry of Education in Brazil.

DIGITAL COMMUNICATION

>30 Wikipedia pages edited with students as part of graduate and undergraduate courses in Plant Animal Interactions and Tropical Ecology. Complete at: <http://en.wikipedia.org/wiki/User:Embruna>

Biotropica.org: The Editor's Blog. A forum for sharing information about the journal *Biotropica*, its ongoing initiatives, announcements debates on recent publications, and advice for authors. >80,000 views since launched in August 2013, <http://biotropica.org/>

BrunaLab.org / "Between the 23s" (lab web page and blog): In addition to hosting publications, data, and other information on current lab activities, we provide resources for the broader community on topics (e.g., resources for beginners on making figures in R or version control with GitHub). We also maintain a compendium on smartphone applications for fieldwork, which is responsible for most of the sites 113,000 page views since January 2013. <http://brunalab.org/>

"Jean Theodore Descourtilz (1796-1855) and the *Ornithologie Bresilienne*." A website created by TCD graduate students in my Tropical Ecology class to provide background information and an analysis of artwork acquired by the Harn Museum of Art on their behalf. <https://descourtilz.wordpress.com/>

TEACHING EXPERIENCE

Graduate and Undergraduate Courses Developed and Taught

Instructor, The Ecology and Conservation of Tropical Wildlife (Undergraduate, 03,05,07,11,12,14,18)
 Instructor, Data Collection & Management for Latin American Studies (Graduate, 19)
 Instructor, Plant-Animal Interactions (Graduate, 04,06,08,10)
 Instructor, Fundraising for Tropical Conservation & Development (Graduate, 13, 16, 18)
 Instructor, Scientific Publishing (Graduate, UF 14, 15, 17, 18; UFU 11)
 Instructor, Data Management and Archiving (Graduate, UFU, 12, 14)
 Instructor, Ecological Principles for Development & Conservation Professionals (Graduate, 10,11,12)
 Instructor, Tropical Forest Community Ecology (Graduate, 00)
 Instructor, Design and Methods of Research in Latin American Studies (Graduate, 08, 10)
 Instructor, Research Methods in Tropical Conservation & Development (Graduate, 03-07)
 Instructor, Seminar in Wildlife Ecology and Conservation (Graduate, 03, 04)
 Instructor, Mechanisms of Coexistence in Diverse Communities (Graduate, UFU 06)

Guest Lecturer in Classroom and Field Courses

| | |
|--|---|
| Environmental Planning and Design (EES 6051, '16,'18) | The Amazon (LAS6290, '09, '11) |
| Discovering Research & Communicating Science (IDH3931, '15) | Ecosystem Ecology (BOT6935, '06) |
| Development Theory & Practice (LAS6938, '10) | Facets of Sustainability (IDS2154, '11, '13) |
| Principles of Wildlife Ecology & Conservation (WIS6934, '08) | Wildlife Techniques (WIS4945C, '05) |
| Luso-Brazilian Civilization (POW3500, '04) | Population Ecology, INPA ('02, '03) |
| Wildlife Population Modeling (WIS6466, '03, '06, '08, '10) | Community Ecology, INPA ('02) |
| Antioch College Semester Abroad – Brazil ('99, '01) | OTS 3M course ('01) |
| OTS Amazonian Ecosystems ('01) | Univ. Amazonas Fragmented Landscapes ('00, '02) |

GRADUATE STUDENTS ADVISED

| <u>Student</u> | <u>University/Department</u> | <u>Degree & Date of graduation</u> |
|---------------------------|--------------------------------------|--|
| Thomas Smith | UF, Wildlife Ecology & Conservation | Ph.D. |
| Simon Parsons | UF, Latin American Studies | M. A., 2018 |
| Ernane H. M. Vieira Neto | UF, Wildlife Ecology & Conservation | Ph.D., 2016 |
| Fabiane Moreira Mundim | UF, Wildlife Ecology & Conservation | Ph.D., 2016 |
| Ana Ceclia Silva | UF, Latin American Studies | M. A., 2015 |
| Paulo Rubim | U. Federal de São Carlos, Ecology | Ph.D., 2014 |
| Pedro B. de Vasconcelos | U. Federal de Uberlândia | M.S., 2012 |
| Christine Lucas | UF, Wildlife Ecology & Conservation | Ph.D., 2011 |
| Cris Follman Jurinitz | Universidade de São Paulo, Ecology | Ph.D., 2010 |
| Stella Copeland | UF, Wildlife Ecology & Conservation | M.S., 2009 |
| Gwen Iacona | UF, Wildlife Ecology & Conservation | M.S., 2008 |
| Alana Vaz Ferreira | Univ. Federal de Uberlândia, Ecology | M.S., 2008 |
| Ian Fiske | UF, Wildlife Ecology & Conservation | M.S., 2006 |
| Matthew Trager | UF, Interdisciplinary Ecology | M.S., 2005 |
| Maria B. Nogueira-Ribeiro | Universidade de São Paulo, Ecology | M.S., 2005 |

Students under my supervision have been awarded over \$35,000 in grants to support their research and been the recipients of prestigious fellowships and awards to support their studies:

- FLAS Fellowship (S. Parsons)
- NSF Predoctoral Fellowships (M. Trager, S. Copeland)
- UF IGERT Fellowship (C. Lucas)
- Inter-American Foundation Grassroots Development Fellowship (C. Lucas)
- UF Alumni Fellowship (M. Trager)
- Fulbright Fellowship (A. Neto)
- Science Without Borders Doctoral Fellowship (E. V. Neto, F. Mundim).
- NSF Doctoral Dissertation Enhancement Grant (C. Lucas)
- UF-WEC Jennings Scholarship (A. Neto, M. Trager, F. Mundim, G. Iacona)
- UF-CALS Doris Lowe & Earl & Verna Lowe Scholarship (C. Lucas, E. V. Neto).

Research by my students has also been recognized for its excellence:

- Fabiane Mundim: 2016 UF-WEC High-Impact Publication
- Ana Cecilia Silva: Honorable Mention, 2015 Charles Wood Thesis Award, UF Latin American Studies
- Fabiane Mundim: Honorable Mention, 2012 OTS Outstanding Paper Competition
- Christine Lucas: 2012 Marianne Schmink Award for the University of Florida's outstanding Dissertation in Tropical Conservation and Development.
- Ernane Vieira Neto: 2011 E. Lucy Braun Award (Outstanding poster presented at the Annual Meeting of the Ecological Society of America).
- Shannon Moore, a high school student in my lab as part of UF's Student Science Training Program (SSTP), was awarded the prize for the best oral presentation at the 2010 SSTP Symposium.
- Matthew Trager: 2005 Wildlife Grad Student Assoc. Outstanding Research Award (MS Category).

DOCTORAL STUDENT COMMITTEE SERVICE (UNIVERSITY OF FLORIDA)

| <u>Student</u> | <u>University, Department, & Date of Graduation</u> |
|----------------------|---|
| Johanna R. Jantzen | UF, Biology |
| Maria Beatriz Cortez | UF, Biology |
| Demian Gomez Damiano | UF, Forest Resources and Conservation |

| | |
|--------------------------|---|
| Jacy Hyde | UF, Forest Resources and Conservation |
| Flavia Montaña Centellas | UF, Wildlife Ecology & Conservation, 2018 |
| Jade Badon | UF, Entomology, 2018 |
| Pablo Allen | UF, Entomology, 2017 |
| Margo Stoddard | UF, Wildlife Ecology & Conservation, 2017 |
| Scott Macrae | UF, Anthropology, 2017 |
| Rajeev Pillay | UF, Wildlife Ecology & Conservation, 2016 |
| Rosalyn Johnson | UF, Wildlife Ecology & Conservation, 2016 |
| Gonzalo Rivas | UF, Wildlife Ecology & Conservation, 2015 |
| Oscar Gonzalez | UF, Wildlife Ecology & Conservation, 2015 |
| Trevor Caughlin | UF, Biology, 2013 |
| Kristine Callis | UF, Biology, 2013 |
| Mollie Brooks | UF, Biology, 2012 |
| Silvia Alvarez-Clare | UF, Biology, 2012 |
| Christie Klimas | UF, Forest Resources & Conservation, 2010 |
| C. Seabird McKeon | UF, Biology, 2010 |
| Joseph Veldman | UF, Biology, 2010 |
| Jennifer Schafer | UF, Biology, 2010 |
| Joanna Tucker | UF, Interdisciplinary Ecology, 2010 |
| Dan Thornton | UF, Wildlife Ecology & Conservation, 2010 |
| Matt Trager | UF, Interdisciplinary Ecology, 2009 |
| Alex Jahn | UF, Zoology, 2009 |
| Ivan Diaz | UF, Wildlife Ecology & Conservation, 2008 |
| Christa Zweig | UF, Wildlife Ecology & Conservation, 2008 |
| Silvia Lomáscolo | UF, Zoology, 2008 |
| Bonifacio Mostacedo | UF, Botany, 2007 |
| David Serrano | UF, Entomology, 2006 |
| Traci Darnell | UF, Wildlife Ecology & Conservation, 2006 |

MASTER'S STUDENT COMMITTEE SERVICE

| <u>Student</u> | <u>University, Department, & Date of graduation</u> |
|-------------------------|---|
| Lauren Trotta | UF, Wildlife Ecology & Conservation, 2016 |
| Crisne Lebron | UF, Latin American Studies, 2015 |
| Brittany Bankovich | UF, Wildlife Ecology & Conservation, 2014 |
| Carly Voight | UF, Latin American Studies, 2010 |
| Nathan Marcy | UF, Wildlife Ecology & Conservation, 2010 |
| Kristen Aaltonen | UF, Wildlife Ecology & Conservation, 2009 |
| Laura Fonseca | UF, Latin American Studies, 2009 |
| Mariano Rodriguez Cabal | UF, Wildlife Ecology & Conservation, 2007 |
| Jennifer Holm | UF, Forest Resources & Conservation, 2007 |
| Tania Kim | UF, Zoology, 2006 |
| Jamie Cotta | UF, Interdisciplinary Ecology, 2006 |
| Teresa Cooper | UF, Entomology, 2006 |
| Christie Klimas | UF, Forest Resources & Conservation, 2006 |
| Silvia Alvarez Clare | UF, Botany, 2004 |
| Jennifer Davies | UF, Latin American Studies, 2003 |

EXTERNAL THESIS COMMITTEE MEMBER, EXAMINER, OR DEFENSE COMMITTEE MEMBER

| <u>Student</u> | <u>University/Department</u> | <u>Degree, Date of graduation</u> |
|----------------------|----------------------------------|-----------------------------------|
| Talita Reis | UNICAMP, Brazil | Ph.D. Thesis Examiner, 2015 |
| Laura Vivian Barbosa | U. Federal de Uberlândia, Brazil | Ph. D. Proposal Defense, 2014 |

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|------------------------------|----------------------------------|------------------------------|
| Alan Nilo da Costa | U. Federal de Uberlândia, Brazil | Ph. D. Defense, 2013 |
| Jonas B. Marvalhas | U. Federal de Uberlândia, Brazil | M.S. Defense, 2013 |
| Marina Cortes | Columbia University, USA | Ph.D. Committee Member, 2012 |
| Mauricio Bonesso Sampaio | UNICAMP, Brazil | Ph.D. Thesis Examiner, 2012 |
| Maria Rosa Darrigo | UNICAMP, Brazil | Ph.D. Thesis Examiner, 2011 |
| Sjirk Geerts | Stellenbosch Univ., South Africa | Ph.D. Thesis Examiner, 2011 |
| Rafael Soares de Arruda | INPA, Brazil | Ph.D. Thesis Examiner, 2008 |
| Thiago Junqueira Izzo | INPA, Brazil | Ph.D. Thesis Examiner, 2005 |
| Carine Emer | INPA, Brazil | M.S. Thesis Examiner, 2011 |
| Flávio de Oliveira Rodrigues | INPA, Brazil | M.S. Thesis Examiner, 2011 |
| Waldete Castro Lourenço | INPA, Brazil | M.S. Thesis Examiner, 2009 |
| Simone B. Fontoura | INPA, Brazil | M.S. Thesis Examiner, 2007 |
| Paula M. Pedrosa | INPA, Brazil | M.S. Thesis Examiner, 2004 |
| Ernane Vieira Neto | U. Federal de Uberlândia, Brazil | M.S. Defense, 2008 |
| Alan Nilo da Costa | U. Federal de Uberlândia, Brazil | M.S. Defense, 2007 |
| Daniel Mascia Vieira | Universidade de Brasília, Brazil | M.S. Defense, 2002 |
| Carine Emer | INPA, Brazil | M.S. Proposal Examiner, 2009 |
| Simone Benedet Founatura | INPA, Brazil | M.S. Proposal Examiner, 2006 |
| Thiago Junqueira Izzo | INPA, Brazil | M.S. Proposal Examiner, 2002 |
| Melina Alcalá | UFSCar, Brazil | M.S. Qualifying Exam, 2009 |
| Raquel Negrão Baldoni | UFSCar, Brazil | M.S. Qualifying Exam, 2009 |
| Pedro B. Vasconcelos | U. Federal de Uberlândia, Brazil | B.S. Thesis Defense, 2009 |
| Fabiane M. Mundim | U. Federal de Uberlândia, Brazil | B.S. Thesis Defense, 2007 |

UNDERGRADUATE, POSTGRADUATE, AND POSTDOCTORAL/SABBATICAL SCHOLARS

| <u>Scholar</u> | <u>Institution</u> | <u>Activity & Date</u> |
|------------------------|---------------------------------------|--------------------------------|
| Maíra Rocha | INPA-Botânica | Visiting PhD Student, 2017 |
| Laury Cullen | Inst. De Pesquisas Ecológicas, Brazil | Sabbatical Scholar, 2016 |
| Yves Bovolenta | Univ. Estadual de Londrina, Brazil | Visiting PhD Student, 2014 |
| Diego Rodruigues | Univ. Estadual de Londrina, Brazil | Visiting PhD Student, 2014 |
| Karine Carvalho | Univ. Estadual Sul da Bahia, Brazil | Sabbatical Scholar, 2013-14 |
| Ariadna V. F. Lopes | Univ. Federal de Pernambuco, Brazil | Sabbatical Scholar, 2013-14 |
| Maria Rosa Darrigo | University of Florida | Postdoctoral Scholar, 2012 |
| Laura Vivian Barbosa | Univ. Federal de Uberlandia, Brazil | Postgraduate Scholar, 2010-13 |
| William Hahn | Eastside High School | Research Associate, 2011-12 |
| Alan Nilo da Costa | Univ. Federal de Uberlandia, Brazil | Visiting PhD Student, 2012 |
| Pedro Vasconcelos | Univ. Federal de Uberlandia, Brazil | Visiting MS Student, 2011 |
| Caroline Ferreira | Univ. Federal de Uberlandia, Brazil | Visiting MS Student, 2011 |
| Rodolfo de Abreu | USP-ESALQ, Brazil | Visiting PhD Student, 2011 |
| Paul Gagnon | University of Florida | Postdoctoral Scholar, 2008-11 |
| Heather Passmore | University of Florida | Postdoctoral Scholar, 2010-11 |
| Shannon Moore | Ft. Myers High School | SSTP Scholar, 2010 |
| Tyler Webner | American Heritage High School | SSTP Scholar, 2010 |
| Thiago Izzo | University of Florida & BDFFP | Postdoctoral Scholar, 2005-09 |
| Marina Anciães | Columbia University & BDFFP | Postdoctoral Scholar, 2007-10 |
| Ariadna V. F. Lopes | Univ. Federal de Pernambuco, Brazil | Sabbatical Scholar, 2006-2007 |
| Alexandre Oliveira | Universidade de São Paulo, Brazil | Sabbatical Scholar, 2006 |
| Simone Athayde | Instituto Socioambiental, Brazil | TCD Professional Visitor, 2004 |
| Fabiane Mundim Ribeiro | Universidade Federal de Uberlandia | Visiting MS Student, 2008 |
| Rita Quitete Portela | Univ. Estadual de Campinas, Brazil | Visiting PhD Student, 2007 |
| Ernane Vieira Neto | Univ. Federal de Uberlandia, Brazil | Visiting MS Student, 2007 |
| Paulo Rubim | BDFFP-INPA | Postgraduate Scholar, 2007-11 |

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|--------------------|---------------------------------|--------------------------------|
| Irina Skinner | University of Florida | WEC Individual Project, 2006 |
| Camilla Castanho | Univ. de São Paulo, Brazil | Postgraduate Scholar, 2006 |
| Maria Rosa Darrigo | BDFFP-INPA | Postgraduate Scholar 2002-03 |
| Irina Skinner | University of Florida | UF Scholars Thesis, 2009 |
| David M. Lapola | Univ. Estadual Paulista, Brazil | Senior Thesis Co-advisor, 2004 |
| Ian Fiske | University of Florida | WEC Undergrad Project, 2003 |
| Bridget Chapin | University of Florida | WEC Undergrad Project, 2003 |
| Olavo Nardy | Univ. Estadual Paulista, Brazil | Senior Thesis Co-advisor, 2000 |

Research Interns: Wesley Dáttilo da Cruz (Univ. Estadual do Norte Fluminense, 2007), Jefferson José Valsko da Silva (Universitário do Norte, Fluminense, 2007), Renata Pacheco do Nascimento, Univ. Federal de Uberlândia, 2005-07) Cauê Thomé Lopes (Univ. Federal de Uberlândia, 2005-07), Polyanna Custodio Duarte, Univ. Federal de Uberlândia, 2005-06) Waldete Castro Lourenço (Univ. Federal do Amazonas, 2006), Elisabete Marques da Costa (Univ. Federal de Pernambuco, 2006), Bruno Turbiani (Universidade Estadual Paulista, 2005), Cristina Escate (Universidade Federal do Amazonas, 2004), Simone Benedet (Universidade do Vale do Rio do Sinos, 2004), Cris Follman Jurinitz (Univ. Federal do Rio Grande do Sul, 2003), David M. Lapola (Universidade Estadual Paulista, 2003-2004), Denise Cruz (Univ. Federal do Rio de Janeiro, 2003), Maria Beatriz Nogueira (Universidade de São Paulo, 2002), Sylvia Heredia (Universidad de los Andes, 2001-2002) Obed Garcia (INPA, 2001).

SERVICE TO THE UNIVERSITY OF FLORIDA

Catalyst Fellow, UF Innovation Academy Catalyst Challenge (2018)
 Selection Committee, UF Teacher/Scholar of the Year (2015)
 External Advisory Committee, "Researching Students' Information Choices: Determining Identity and Judging Credibility in Digital Spaces", Institute of Museum and Library Services (PI's A. Buhler & T. Cataldo, 2015-2018).
 International Outreach Advisory Council, Graduate School (2014-Present)
 Samuel P. Harn Museum of Art Faculty Council (2012-2015)
 Selection Committee, UF Teacher/Scholar of the Year (2015)
 UF Research Foundation Professorship Selection Committee (2010)
 Internal Advisory Board, Innovation through Institutional Integration (I³) program (2010-2014)
 Administrative Council, QSE³ IGERT (2008-2014)
 Selection Committee, UF International Educator of the Year Award (2006)
 Peer Teaching Evaluation for Dr. Michelle Mack, UFL Department of Botany (2006).

SERVICE TO THE UF COLLEGE OF AGRICULTURAL AND LIFE SCIENCES

York Distinguished Lecture Selection Committee (2015)
 Search and Screen Committee, CALS Quantitative Sciences Faculty Positions (2013)
 Coordinating Committee, School for Natural Resources & the Environment (2012)
 Invited Speaker, College of Agricultural & Life Sciences Teaching Grantsmanship Workshop (2012)
 Mentorship Committee for Dr. Luke Flory, Dept. of Agronomy (2012)
 IFAS Faculty Professional Development Advisory Committee (2012-2013)
 Selection Committee, College of Agricultural & Life Sciences Teaching and Advising Awards (2012)
 Invited Speaker, College of Agriculture and Life Sciences Teaching Enhancement Symposium (2010)
 College of Agricultural & Life Sciences Undergraduate Scholarships & Awards Committee (2007-2009)
 Unifas Focus Group (Teaching Section), College of Agriculture and Life Sciences (2007)
 Unifas Advisory Committee, College of Agriculture and Life Sciences (2006-2007)
 Invited Speaker, College of Agriculture and Life Sciences Teaching Enhancement Symposium (2005)
 Commencement Marshal, College of Agricultural and Life Sciences (2004, 2014, 2015, 2018)

SERVICE TO THE UF DEPARTMENT OF WILDLIFE ECOLOGY & CONSERVATION

Chair, Peer Teaching Evaluation Committee for Dr. Morgan Ernest (2017-2018)
 Search and Screen Committee, Asst. Professor of Population Ecology (2017)
 Seminar Series Coordinator (Fall 2015)

Communications Committee (2014-Present)
Member, Peer Teaching Evaluation Committee for Dr. Bill Pine (2015)
Chair, Mentorship Committee for Dr. Robert Fletcher (2009-2012)
Graduate Program Committee (2005-2012)
Chair, Peer Teaching Evaluation Committee for Dr. Lyn Branch (2011)
Chair, Peer Teaching Evaluation Committee for Dr. Bill Pine (2010)
International Programs Committee (2006-2010)
Chair, Peer Teaching Evaluation Committee for Dr. Robert Fletcher (2009)
Search and Screen Committee, Department Head (2006)
Search and Screen Committee, Asst. Professor of Landscape Ecology (2004)
Research Committee (2005-present)
Selection Committee, PSTC-Compton Fellowships (2006)
Search and Screen Committee, Asst. Professor of Conservation Genetics, WEC (2004)
Seminar Series Coordinator (2003-2004)
Peer Teaching Evaluation Committee for Dr. Madan Oli (2003)
Steering Committee, Compton Fellowship Program, Program for Studies in Tropical Conservation (2002-Present)

SERVICE TO THE UF CENTER FOR LATIN AMERICAN STUDIES

Advisory Committee, Pan-Amazon Community of Practice Project (2018-present)
Steering Committee, Tropical Conservation & Development Program (2010-2016, 2018-present)
Merit Evaluation Committee (2015-2017)
Search and Screen Committee, LAS Communications Coordinator (2015)
Chair, Search and Screen Committee, Lecturer in Latin American Studies (2015)
Bacardi Seminar Series Coordinator, Center for Latin American Studies (Spring 2015)
Chair, Field Research Grants Committee, TCD Program (2004, 2008, 2009, 2015)
Chair, Marianne Schmink Award Selection Committee, TCD (2010, 2011, 2013)
Academic Advisor, Tropical Conservation and Development (TCD) Program (2008-2011)
Chair, Tropical Conservation and Develop Program Fellowship Committee (2012)
Curriculum Committee, Master's Program in Sustainable Development Practice (2010-2012)
Chair, Field Research Grants Committee, Tropical Conservation & Development Program (2008-2010)
Field Research Grants Committee, Tropical Conservation & Development Program (2003, 2004)
Faculty Advisor, TCD Graduate Student Organization (2008-2016)
Organizing Committee, TCD Strategic Planning Activities (2007-2008)
Executive Committee, Tropical Conservation and Development Program (2002-2008)
Graduate Admissions and Fellowship Committee, Center for Latin American Studies (2007)
Fellowship Committee, Tropical Conservation and Develop Program (2003-2005)
Advisory Council, Amazon Conservation Leadership Initiative (2004-2005).

SERVICE TO OTHER INSTITUTIONS

ASN/SSE/SSB Committee on Development a Professional Code of Ethics (2018-2019)
External Advisor, 2nd Planning Workshop for the Brazilian Biodiversity and Ecosystem Services Synthesis Center
Tenure and Promotion Evaluations: (2018: 2, 2017: 1, 2016: 2, 2015: 1)
Discussant, 2016 Research & Writing Conference, Florida Education Fund McKnight Doctoral Fellowship Program
Population Biology Workshop in Ecology co-host and co-organizer (UC Davis, 2000)
Student Representative, Population Biology GRT Executive Committee (UC Davis, 1996-1997)
EAP Selection Committee, Tropical Biology Program (UC San Diego, 1994)

Association for Tropical Biology and Conservation (ATBC): Councillor (2009-2011), Annual Meeting Scientific Committee (2017, 2012), Co-organizer, Symposium on Amazonian Conservation, Conservation Committee (2004-2006), Co-organizer, Symposium on Amazonian Conservation, Annual Meeting (2004).

SERVICE AS A REVIEWER AND EDITOR

Biotropica: Editor-in-Chief (2013-present), Associate Editor (2010-2013). **>2400 decisions 2010-2019.**

Board of Editors: *Biotropica* (2007-Present, 124 manuscripts handled to date), *Ecology*, *Ecological Monographs* &, *Ecological Applications* (2008-2012, 22 manuscripts handled)

Reviewer for Journals (No. of reviews): *Information, Communication, & Society* (1), *Ecology* (3), *Ecology and Evolution* (1), *Methods in Ecology & Evolution* (1), *Conservation Biology* (5), *Biological Conservation* (7), *Ecological Applications* (1), *Oecologia* (4), *Journal of Tropical Ecology* (2), *Journal of Ecology* (6), *New Phytologist* (1), *American Naturalist* (2), *Plant Ecology* (3), *Proc. Roy. Soc. Lond. B* (1), *Journal of Applied Ecology* (1), *Biotropica* (10), *Ecography* (5), *Ciência y Cultura* (2), *Oikos* (1), *Revista Chilena de Historia Natural* (1), *Biochemical Systematics & Ecology* (1), *Ecology Letters* (2), *Insectes Sociaux* (1), *American J. of Botany* (1), *Scientometrics* (1), *F1000* (1), *Desenvolvimento e Meio Ambiente* (1), *PLoS Biology* (1)

US National Science Foundation: Proposal Review Panels: DEB Ecology (2005), DEB Population and Evolutionary Processes (2007), DEB Population and Community Ecology (2011, 2013). Ad-hoc proposal review: UMEB Program (2), RUI Program (1), Ecological Biology Program (3), AMERICAS Dissertation Improvement Grant (1), NSF Global Scientists and Engineers Program (1), Population and Evolutionary Processes Program (1), International Research Fellowship Program (1), Population and Community Ecology Program (2), Dimensions of Biodiversity Program (1)

Other service as a reviewer (No. of reviews or Year of service): Mindlin Foundation (2018), Cornell University Press (2017), Instituto Serrapilheira (2017), HHMI Professors Program (2017), UF FAES/CRIS Project Proposals (2), U. of Chicago Press (1), Alfred P. Sloan Foundation Minority Ph.D. Program (3). SNRE Seed Grant and New Faculty Support Grant Programs (5), National Geographic Society (1), U. of California Press (1), Tenure/Promotion Portfolio Evaluations (2011, 2015, 2016 [3], 2018 [1]).

INVITED PRESENTATIONS

- 2019 UFL-LAS Global Connection, Hunter's Lane High School (Nashville TN)
- 2018 Annual Conference of Ford Foundation Fellows, Roundtable on Scientific Publishing, Irvine CA
Annual Meeting of the Association for Tropical Biology & Conservation, Symposium on "Frontiers in demographic modeling for tropical forest ecology and conservation"
Annual Meeting of the Association for Tropical Biology & Conservation, Keynote Roundtable on "Diversity and inclusion in tropical biology & conservation"
Annual Meeting of the Association for Tropical Biology & Conservation, Crowdfunding Workshop
University of Michigan, Ecology & Evolutionary Biology
Michigan State University, Department of Plant Biology
Michigan State University, Council on Diversity and Community Distinguished Speaker Series
Invited Speaker, UF-IFAS Research Forum
- Invited Speaker, Data Science and Informatics Symposium, UF Informatics Institute
Invited Speaker, UF Biodiversity Institute Symposium on Collaborations in Biodiversity Research
- 2017 Annual Meeting of the Association for Tropical Biology & Conservation, Student & Early Career Scientist Chapter Symposium
Springer-Nature Latin America and Caribbean Webinar Series
- 2016 Northern Arizona University, Department of Biological Sciences
Informatics Institute, University of Florida
California Academy of Sciences
Annual Members Meeting, Dryad Digital Data Repository
Instituto Nacional de Pesquisas da Amazônia
Institute of Learning in Retirement, University of Florida
Annual Meeting of the Association for Tropical Biology & Conservation, Symposium on habitat

- fragmentation and functional homogenization
- 2015 Vice-President's Symposium, Annual Meeting of the American Society of Naturalists
New Mexico State University, HHMI CREATE Speaker
New Mexico State University, Department of Biology
Annual Meeting of the Ecological Society of America, Organized Session on Demography & Disturbance
Universidade Federal de Uberlândia, Instituto de Biologia
Universidade Federal do Rio de Janeiro, Instituto de Biologia
University of Florida, Department of Biology
iDigBio Field to Data Workshop, University of Florida
Fulbright Scholars Lecture Series, University of Florida
Maguire Center for Lepidopteran Research, University of Florida
- 2014 Universidade de São Paulo, Instituto de Biociências
Universidade Federal do Acre, Departamento de Ecologia e Manejo de Recursos Naturais
University of Florida, Department of Wildlife Ecology & Conservation, Social Media Workshop
- 2013 University of Montana, Division of Biological Sciences
Annual Meeting, National Association of Science Writers
- 2012 Plenary Speaker, Southeastern Ecology and Evolution Conference
Annual Meeting of the Association for Tropical Biology & Conservation, Symposium on Ecology, Evolution, and Conservation of the Cerrado.
- 2011 Annual Meeting, Society for Environmental Journalists
University of Florida, Department of Entomology and Nematology
Instituto Nacional de Pesquisas da Amazônia, Departamento de Ecologia
Horizon School, Alachua County School District
- 2010 Fulbright-Hays Scholars Departure Seminar, University of Florida
Eckerd College, Department of Biology
- 2009 Symposium honoring the 10th anniversary of the Graduate Program in Ecology and Natural Resource Conservation, Universidade Federal de Uberlândia
III Ecology Symposium, Universidade Federal de São Carlos, Brazil
IX Brazilian Ecological Congress
Universidade Federal do Rio de Janeiro, Instituto de Biociências
University of California-Davis, LAWR-ESP Centennial Seminar Series
California State University-Northridge, Department of Biology
- 2008 University of Florida, Undergraduate Honors Program
National Science Foundation, RIG-CAA PI Meeting (Panel on Career Planning)
Columbia University, Ecology, Evolution, and Environmental Biology
University of Central Florida, Department of Biology
University of Missouri, Division of Biological Sciences
- 2007 University of California-Riverside, Department of Botany and Plant Sciences
University of California-Riverside, Department of Biology
University of Missouri-St. Louis, Department of Biology
Annual Meeting of the Association for Tropical Biology & Conservation, Symposium on Plant-Insect Interactions in the Tropics
Petrobras/Washington & Lee Conference on the Environment, Economy and Sustainable Development Washington and Lee University
Universidade de São Paulo, Instituto de Biociências
University of Florida, Dept. of Fisheries and Aquatic Sciences Graduate Student Symposium
University of Florida, Center for Latin American Studies
Instituto Nacional de Pesquisas da Amazônia, Departamneto de Ecologia
- 2006 Annual Meeting of the Society for the Advancement of Chicanos and Native Americans in Science, Workshop on Careers in Ecology and Evolution
Joseph W. Jones Ecological Research Center
University of Florida, Department of Zoology
- 2005 Archbold Biological Station

- Florida State University, Dept. of Biological Sciences
University of California-Santa Cruz, Dept of. Ecology and Evolution
Annual Meeting of the Association for Tropical Biology & Conservation, Symposium on Habitat Fragmentation in Tropical Forests
- 2004 University of Florida, H. T. Odum Center for Wetlands
Institute for Ecosystem Studies
Universidade Federal de Uberlândia, Instituto de Biologia
Biological Dynamics of Forest Fragments Project 25th Anniversary Symposium, Manaus, Brazil
Annual Meeting of the Association for Tropical Biology & Conservation, Symposium on Amazonian Ecology and Conservation
- 2003 University of Montana, Division of Biological Sciences
University of Florida, Department of Botany
Symposium on Sustainable Development, Universidade Federal do Acre, Brazil
National Science Board workshop on Broadening Minority Participation in Science and Engineering Research and Education, Washington DC
Annual Meeting of the ATBC, Symposium on Emerging Threats in Tropical Forests
- 2002 University of South Florida, Department of Biology
- 2001 University of Florida, Department of Wildlife Ecology and Conservation
University of Florida, Center for Latin American Studies
XIII Encontro de Zoologia do Nordeste, Brazil, Symposium on Habitat Fragmentation in Brazil
Annual Meeting of the Assoc. for Tropical Biology, Symposium on the Zingiberales
- 1999 International Botanical Congress, Symposium on Fragmentation & Plant-Pollinator Interactions
- 1998 Department of Botany, National Museum of Natural History, Smithsonian Institution
- 1995 Department of Biology, Universidad Autonoma de Baja California, Mexico

INTERVIEWS & MEDIA APPEARANCES: **2018:** Popular Science, Associated Press, National Geographic, Scholastic Classroom Magazines, Gainesville Sun, Mongabay.com. **2017:** The Wire (India), Chemistry World, Nature, Gainesville Sun. **2016:** Chronicle of Higher Education, DailyDot, Nature, Mongabay.com. **2014:** NPR's Morning Edition/Joe's Big Idea, TV Acre (Rede Globo Rio Branco) Bom Dia Amazônia, TV Gazetta (Rede Record Rio Branco) Programa 'Entrevista com Rogério Wenceslau', Estado de São Paulo, Nature.com, WUFT, Science/Science Insider, Howler Soccer Magazine's Dummy Podcast. **2013:** SciDevNet, WSLR Florida-Caribe Radio Show. **2006:** The Scientist Magazine, Science Minority Scientists Network. **2005:** Science's Next Wave, Televisão Universitária, Uberlândia, Folha de São Paulo. **2004:** Science Magazine's Minority Scientists Network. **2002:** NPR's Weekend Edition Saturday, BBC World Service Radio 4, Austrian Public Television's Modern Times.

PROFESSIONAL DEVELOPMENT: University of Florida Science Communication Academy (2013), California Academy of Sciences: *The Ant Course: taxonomy and systematics* (Costa Rica, 2004), Organization for Tropical Studies: *Tropical Plant Systematics 96-9* (Costa Rica, 1996), University of California Education Abroad Program: *Tropical Biology Quarter* (Costa Rica, 1993)

MEMBERSHIPS IN PROFESSIONAL SOCIETIES: Ecological Society of America, Association for Tropical Biology and Conservation, American Association for the Advancement of Science, International Society for Scientometrics and Infometrics