

EMILIO MIGUEL BRUNA

University of Florida

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

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

EDUCATION

2001 Ph.D. in Population Biology, University of California, Davis
1995 M.S. in Biology, University of California, San Diego
1994 B.S. in Ecology, Behavior, & Evolution & minor in Literature, Univ. of California, San Diego

PROFESSIONAL APPOINTMENTS

2013-Present **Professor**, 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**, *Biotropica*
Published by the Association for Tropical Biology & Conservation and Wiley

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

2014 Academy of Distinguished Teaching Scholars, University of Florida

2012 Outstanding Paper Award, International Association for Landscape Ecology (US Chapter)
For the year's outstanding contribution to the field, published in any journal

2011 Graduate Advisor & Teacher of the Year, College of Agricultural and Life Sciences, UF

2009-2011 University of Florida Research Foundation Professor

2007 Award for Excellence in Tropical Biology & Conservation
For the year's outstanding paper published in the journal Biotropica

2005 International Educator of the Year, UF (*untenured faculty category*)

2003 Diversity Scholar, American Institute for Biological Sciences

2002 John L. Harper Award, British Ecological Society
For the outstanding paper published in the Journal of Ecology by a young investigator

FELLOWSHIPS

2012-2015	Ciência Sem Fronteiras (Brazil) Special Visiting Researcher Fellowship
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
1994	Ernest C. Mort Leadership Excellence Award, Revelle College, UC San Diego
1993	Howard Hughes Senior Honors Thesis Fellowship
1993	UCSD Howard Hughes Summer Research Fellowship

GRANTS IN SUPPORT OF RESEARCH, TRAINING, & PROGRAM DEVELOPMENT (over \$5 million)

John Wiley and Sons. “*Funds to support the Biotropica Editorial Office*” (\$199,945; 2014: \$30,389, 2015-2019: \$42,389 per year).

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

UF Center for Latin American Studies “*Latin American Speakers Program – support for Herton Escobar*” (\$500, with an \$1500 in matching funds provided by the 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*” (Grant Number 2008-32691, \$142,198, Principal Investigator with 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).

University of Florida International Center. “*International Speakers Program – Support for presentations by Dr. Claudio Padua, 2008 UF Distinguished Alumnus*” (\$1500, with an additional \$3500 in matching funds provided by the Department of Wildlife Ecology and Conservation, Center for Latin American Studies, 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, University of Florida (\$230,888) and DEB-0614339 to M. Uriarte, Columbia University (\$251,831; 2006-2010).

National Science Foundation Minority Career Advancement Award. "*Linking population and ecosystem ecology: how does nitrogen deposition influence plant demography in tropical savannas?*" DEB-0542287 to E. Bruna, University of Florida (\$174,499; 2006-2008).

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, University of Florida (\$245,096) and DEB-0452720 to B. Inouye, Florida State University (\$260,000; 2005-2009).

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; Principal Investigator; 2005-2008).

Conselho Nacional de Desenvolvimento Científico e Tecnológico, Brazil (CNPq). "*Top-down effects on the structure of Cerrado plant communities: the role of seed predation and herbivory by leaf-cutter ants and small mammals*" (R\$ 22,875.74, Co-PI, 2005-2007)

Fundação de Amparo a Pesquisa do Estado de Minas Gerais, Brazil (Fapemig). "*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 – Minority Ph.D. Program. "*Increasing the number of minority Ph.D.'s studying Ecology at the University of Florida.*" (\$32,440 plus matching support in the form of a four-year Teaching Assistantship from Dr. Jimmy Cheek, Dean for Academic Programs, College of Agricultural and Life Sciences, University of Florida; Principal Investigator 2004).

National Science Foundation Research Starter Grant DEB-0309819. "*The effect of forest fragmentation on ant-plant mutualisms.*" \$50,585; Principal Investigator; 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 Co-PI with 5 others).

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; Principal Investigator; 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).

Awards from the Smithsonian Institution, Manomet Observatory (Kathleen S. Anderson Award),

The Wilson Ornithological Society (Paul A. Stewart Award), and the UC Davis Center for Population Biology (Total: \$4590; 1997).

Awards from the Smithsonian Institution and the University of California, Davis (M.E. Mathias Award, Graduate Studies Research Grant, Jastro-Shields Research Award, and Center for Population Biology Summer Research Grant) (Total: \$7270; 1996).

Awards from the Explorer's Club and the University of California, San Diego (Undergraduate Scholastic Research Grants) (Total: \$1955; 1994-1995).

GRANT PROPOSALS UNDER REVIEW (total amount requested >\$6 million)

National Science Foundation. *PIRE: Building Sustainable Tropical Landscapes in a Changing Climate*. (PI: E. M. Bruna. Co-PIs Maria Uriarte, Bette Loiselle, Steve Perz). One submission to NSF per institution; submitted to NSF on October 21, 2014.

National Science Foundation. *PIRE: Exotic pine invasions in the southern hemisphere: a biogeographical perspective on ecological impacts and sociological implications*. (PI: J. Maron. Co-PIs E. Bruna, R. Callaway, J. S. Brewer, B. Maxwell). One submission to NSF per institution; submitted to NSF on October 21, 2014.

National Science Foundation. *LTREB Preliminary Proposal: Synergistic effects of forest fragmentation and ENSO events on the population dynamics of an Amazonian understory herb* (PI: E. Bruna, Co-PI M. Uriarte, Senior Personnel: C. Zartman). First submission of this pre-proposal.

National Science Foundation. *Preliminary Proposal: Testing alternative demographic pathways by which multiple consumer guilds alter plant demography* (PI: E. Bruna, Senior Personnel: H. Vasconcelos, A. Wild). Full proposal recommended for funding in 2013, declined due to limited funds at NSF-DEB.

PEER-REVIEWED PUBLICATIONS, BOOK CHAPTERS, & RESPONSES TO ARTICLES (N = 78)

Note: I encourage my students and postdocs to branch out and work with other students and faculty members and these collaborations often result in publications on which I am not a co-author. Moreover, 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. **A list of publications by lab members on which I am not a coauthor is included below.**

1. 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**].
2. 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.
3. 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
4. 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.
5. A. V. Christianini, P. S. Oliveira, E. M. Bruna, H. L. Vasconcelos. 2014. Fauna in decline: Meek shall inherit. *Science* 354(6201):1129 [Letter to the Editor in response to article].
6. Bruna, E. M. 2014 On identifying rising stars in biology. *Bioscience*. 64(3):169 [Letter to the Editor in response to article].

7. 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*].
8. 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.
9. Côrtes, Marina, 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(22): 5716-5729.
10. 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.
11. 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.
12. 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].
13. 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
14. 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
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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 by the International Association for Landscape Ecology - US Chapter]
21. Ferreira, A.V., E. M. Bruna, and H. L. Vasconcelos. 2011. Seed predators limit plant recruitment in Neotropical savannas. **Oikos** 120: 1013-1022.
22. 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]
23. Pitman, N. C. A., J. Widmer, C. N. Jenkins, G. Stocks, L. Seales, F. Paniagua, and 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.
 24. Gagnon, P. R., E. M. Bruna, P. Rubim, M. R. Darrigo, R. C. Littlel, 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.
 25. 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.
 26. 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
 27. Nogueira Ribeiro, M. B., E. M. Bruna, and 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
 28. 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.
 29. 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.
 30. 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.
 31. 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.
 32. 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.
 33. Bruna, E. M. 2010. Journals can advance tropical biology and conservation by requiring data archiving. ***Biotropica*** 42(4): 399–401 [Editorial].
 34. 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.
 35. 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.
 36. 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.
37. 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.
 38. 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.
 39. 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.
 40. 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.
 41. 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.
 42. 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.
 43. 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.
 44. 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.
 45. 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.
 46. 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.
 47. 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.
 48. 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:e908.
 49. 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].
 50. 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.
51. 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. **[Winner of the Award for Excellence in Tropical Biology and Conservation from the ATBC]**
 52. Boyce, M. S. C. V. Haridas, C. Lee, and the NCEAS Stochastic Demography Working Group*. 2006. Demography in an increasingly variable world. *Trends in Ecology and Evolution* 21(3): 141-148. *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
 53. 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.
 54. 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.
 55. 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]**
 56. 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.
 57. 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
 58. 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.
 59. 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.
 60. Bruna, E. M. and W. J. Kress. 2005. Forest fragments and tropical plant reproduction in Amazonian Brazil. Pp. 141-146 in G. A. Krupnick and W. J. Kress (eds.) *Plant conservation: a natural history approach*. University of Chicago Press, Chicago, USA.
 61. Bruna, E. M. and K. A. Kainer. 2005. A delicate balance in Amazonia. *Science* 307:1044-1045. [Letter to the Editor in response to article].
 62. 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]**.
 63. 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.
 64. 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.

65. 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.
66. 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.
67. 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.
68. Bruna, E. M. 2003. Are plant populations in fragmented habitats recruitment limited? Tests with an Amazonian herb. **Ecology**, 84(4): 932-947.
69. 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.
70. 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. [Winner of the John L. Harper Award from the British Ecological Society].
71. Bruna, E. M. 2002. Effects of forest fragmentation on *Heliconia acuminata* seedling recruitment in the central Amazon. **Oecologia**, 132:235-243.
72. 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.
73. Hoeksema, J. D. and E. M. Bruna. 2000. Pursuing the big questions about interspecific mutualism: a review of theoretical approaches. **Oecologia**, 125: 321-330.
74. Bruna, E. M. 1999. Seeds in rainforest fragments. **Nature**, 402:139
75. Harrison, S. and E. Bruna. 1999. Habitat fragmentation and large-scale conservation: what do we know for sure? **Ecography**, 22: 225-232.
76. 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].
77. 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.
78. 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.

PUBLICATIONS PRODUCED BY LAB MEMBERS ON WHICH I AM NOT A CO-AUTHOR (N = 15; see statement of co-authorship philosophy above. Bruna Lab member is underlined).

1. 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.
2. 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.

3. 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]**.
4. 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.
5. 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.
6. 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]**.
7. 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.
8. 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.
9. 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]**.
10. 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.
11. 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]**
12. 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.
13. 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.
14. 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

1. Bruna E.M et al. 2014. Effect of mutualist partner identity on plant demography. *Ecology*. **Data:** Dryad Digital Repository [doi:10.5061/dryad.5kc45](https://doi.org/10.5061/dryad.5kc45). **Code used in paper (v1.0):** [doi:10.5281/zenodo.11650](https://doi.org/10.5281/zenodo.11650). Available for improvement at <https://github.com/embruna/ant-plant-demography>.
2. Cho et al. 2014. 2014. Women are underrepresented on the editorial boards of journals in environmental biology and natural resource management. *PeerJ*. **Data:** Dryad Digital Repository: [doi:10.5061/dryad.6jn86](https://doi.org/10.5061/dryad.6jn86). **Code for analyses:** <https://github.com/embruna/Editorial-Board-Gender>

3. 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)
4. 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)
5. 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)
6. 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)
7. 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)
8. 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/).
9. 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)
10. 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/).
11. *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>

OTHER PROFESSIONAL WRITING, INCLUDING ONLINE COMMUNICATION (N=7)

1. [E. M. Bruna](#). 2014. *Biotropica* to become an 'online-only' journal in 2015. *Biotropica* 46(6): 782
2. [E. M. Bruna](#). 2014. 2014 Alwyn Gentry Awards, Luis F. Bacardi Award, and ATBC Honorary Fellows. *Biotropica* 46(6): 779-781.
3. [E. M. Bruna](#). 2014. A word from the Editor-in-Chief. *Biotropica* 46(4): 377
4. [Bruna, E. M.](#) 2010. Announcement: *Biotropica* Award for Excellence in Tropical Biology and Conservation. *Biotropica* 42(4): 518–519 [Invited Essay].
5. [Bruna, E. M.](#) 2003. "For the Love of Nature". *Science's Next Wave Online Magazine*. Article available at www.BrunaLab.org. [Invited essay].
6. [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].
7. >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>

MANUSCRIPTS IN REVIEW OR PREPARATION (*available upon request*)

1. Vieira-Neto, E. H. M. and E. M. Bruna. *In review*. Early life stages drive the demographic response to disturbance in a long-lived species. Submitted to *Ecology* [PhD. Thesis Chapter].
2. 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].
3. Rubim, P. R., Maria Uriarte, Osmaido Ferreira, and E. M. Bruna. Neighborhood effects and the reproductive effort of a tropical perennial herb. In preparation for *Ecology* [PhD. Thesis Chapter].
4. Callis-Duehl, K. L., K. Kitajima, H. J. McAuslane, T. M. Palmer, E. M. Bruna, S. J. Wright, D. J. Levey. Are herbivory rates higher in the tropics? A common garden study across latitudes. In preparation for *Science* [PhD. Thesis Chapter].

COURSES TAUGHT AND OTHER TEACHING EXPERIENCE

Instructor, "The Ecology and Conservation of Tropical Wildlife" (Undergraduate, 03,05,07,11,12,14)
Instructor, "Plant-Animal Interactions" (Graduate, Fall 04,06,08,10)
Instructor, "Fundraising for Tropical Conservation & Development (Graduate, Spring 13)
Instructor, "Scientific Publishing" (Graduate, UF Spring 14, UFU F11)
Instructor, "Data Management and Archiving" (Graduate, UFU, 2012, 2014)
Instructor, "Ecological Principles for Development & Conservation Professionals" (Graduate, F10,11,12)
Instructor, "Tropical Forest Community Ecology" (Graduate, S00)
Instructor, "Design and Methods of Research in Latin American Studies" (Graduate, F08, F10)
Instructor, "Research Methods in Tropical Conservation & Development" (Graduate, S03, F03-07)
Instructor, "Seminar in Wildlife Ecology and Conservation" (Graduate, F03, S04)
Instructor, "Mechanisms of Coexistence in Diverse Communities" (Graduate, UFU Summer 06)

Guest Lecturer: Development Theory & Practice (Graduate, LAS6938, 2010), Facets of Sustainability (Undergraduate, IDS2154, 2011, 2013, The Amazon (Graduate, LAS6290, 2009, 2011), Principles of Wildlife Ecology and Conservation (Graduate, WIS6934, 2008), Ecosystem Ecology (Graduate, BOT6935, 2006), Wildlife Techniques (Undergraduate, WIS4945C, 2005), Luso-Brazilian Civilization (Undergraduate, POW3500, 2004), Wildlife Population Modeling (Graduate, WIS6466, 2003, 2006, 2008, 2010), Population Ecology, INPA (Graduate, 2002, 2003), Community Ecology, INPA (Graduate, 2002).

Resource Faculty for Field Courses: Antioch College Brazilian Ecosystems Semester Abroad (1999, 2001), OTS 3M course (2001), OTS Amazonian Ecosystems Course (2001), Universidade do Amazonas Field Course in Fragmented Landscapes (2000, 2002).

GRADUATE STUDENTS ADVISED

<u>Student</u>	<u>University/Department</u>	<u>Degree & Date of graduation</u>
Antônio Aguiar Neto	UF, Wildlife Ecology & Conservation	Ph.D.
Ernane H. M. Vieira Neto	UF, Wildlife Ecology & Conservation	Ph.D.
Fabiane Moreira Mundim	UF, Wildlife Ecology & Conservation	Ph.D.
Ana Ceclia Silva	UF, Latin American Studies	M. A.
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:

- National Science Foundation 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)
- Department of Wildlife Ecology and Conservation Jennings Scholarship (A. Neto, M. Trager, F. Mundim, G. Iacona)
- UF College of Agricultural & Life Sciences (Doris Lowe & Earl & Verna Lowe Scholarship (C. Lucas, E. V. Neto).

Research by my students has also been recognized for its excellence at local and national venues.

- Fabiane Mundim: Honorable Mention in the 2012 OTS Outstanding Paper Competition
- Christine Lucas: 2012 Marianne Schminck Award for the University of Florida's outstanding Dissertation in Tropical Conservation and Development.
- Ernane Vieira Neto: E. Lucy Braun Award from the Ecological Society of America for the outstanding poster presented at the 2011 Annual Meeting.
- Shannon Moore, a high school student conducting research 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 Graduate Student Association's Outstanding Research Award (MS Student Category).

DOCTORAL STUDENT COMMITTEE SERVICE (UNIVERSITY OF FLORIDA)

<u>Student</u>	<u>University, Department, & Date of Graduation</u>
Oscar Gonzalez	UF, Wildlife Ecology & Conservation
Flavia Montaño Centellas	UF, Wildlife Ecology & Conservation
Rajeev Pillay	UF, Wildlife Ecology & Conservation
Rosalyn Johnson	UF, Wildlife Ecology & Conservation
Gonzalo Rivas	UF, Wildlife Ecology & Conservation
Margo Stoddard	UF, Wildlife Ecology & Conservation
Pablo Allen	UF, Entomology
Jade Badon	UF, Entomology
Petra Cunningham-Smith	UF, Anthropology
Scott Macrae	UF, Anthropology
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>
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>
Laura Vivian Barbosa	U. Federal de Uberlândia, Brazil	Ph. D. Proposal Defense, 2014
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>
Yves Bovolenta	Univ. Estadual de Londrina, Brazil	Visiting PhD Student, 2014
Diego Rodrigues	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
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 (Universitario 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 AND COLLEGE

International Outreach Advisory Council, Graduate School (2014-Present)
Samuel P. Harn Museum of Art Faculty Council (2012-2015)
Search and Screen Committee, CALS Quantitative Sciences Faculty Positions (2013)
Coordinating Committee, School for Natural Resources & the Environment (2012)
Panelist, College of Agricultural & Life Sciences Teaching Grantsmanship Workshop (2012)
Mentorship Committee for Dr. Luke Flory, Dept. of Agronomy (2012)
Faculty Professional Development Advisory Committee, IFAS (2012-2013)
Selection Committee, College of Agricultural & Life Sciences Teaching and Advising Awards (2012)
Panelist, College of Agriculture and Life Sciences Teaching Enhancement Symposium (2010)
Internal Advisory Board, Innovation through Institutional Integration (I³) program (2010-Present)
UF Research Foundation Professorship Selection Committee (2010)
Administrative Council, QSE³ IGERT (2008-Present)
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)

Selection Committee, UF International Educator of the Year Award (2006)
Search and Screen Committee, Wildlife Ecology and Conservation Department Head (2006)
Speaker, College of Agriculture and Life Sciences Teaching Enhancement Symposium (2005)
Advisory Council, Amazon Conservation Leadership Initiative (2004-2005).
Commencement Marshall, College of Agricultural and Life Sciences (2014, 2004)
Mentor, UF Minority Mentor Program, (2003)
Faculty Trainer, NSF-IGERT on Working Forest in the Tropics (2002-2008)
Steering Committee, Compton Fellowship Program in Environment and Sustainable Development,
Program for Studies in Tropical Conservation (2002-Present)
EAP Selection Committee, Tropical Biology Program (UC San Diego, 1994)

DEPARTMENTAL SERVICE

Communications Committee (2014-Present)
Chair, Mentorship Committee for Dr. Robert Fletcher, Wildlife Ecology & Conservation (2009-2012)
Chair, Tropical Conservation and Develop Program Fellowship Committee (2012)
Curriculum Committee, Master's Program in Sustainable Development Practice (2010-2012)
Steering Committee, Tropical Conservation & Development Program (2010-present)
Faculty Advisor, TCD Graduate Student Organization (2008-Present)
Graduate Program Committee, WEC (2005-2012)
Chair, Peer Teaching Evaluation Committee for Dr. Lyn Branch (2011)
Chair, Marianne Schminck Award Selection Committee, TCD (2010, 2011, 2013)
Academic Advisor, Tropical Conservation and Development (TCD) Program (2008-2011)
Chair, Peer Teaching Evaluation Committee for Dr. Bill Pine (2010)
International Programs Committee, WEC (2006-2010)
Chair, Peer Teaching Evaluation Committee for Dr. Robert Fletcher (2009)
Organizing Committee, TCD Strategic Planning Activities (2007-2008)
Graduate Admissions and Fellowship Committee, Center for Latin American Studies (2007)
Search and Screen Committee, Asst. Professor of Landscape Ecology, WEC (2004)
Research Committee, WEC (2005-present)
Selection Committee, PSTC-Compton Fellowships (2006)
Peer Teaching Evaluation for Dr. Michelle Mack, UFL Department of Botany (2006).
Chair, Field Research Grants Committee, TCD Program (2004, 2008, 2009)
Search and Screen Committee, Asst. Professor of Conservation Genetics, WEC (2004)
Chair, Field Research Grants Committee, Tropical Conservation & Development Program (2008-2010)
Field Research Grants Committee, Tropical Conservation & Development Program (2003, 2004)
Seminar Series Coordinator, WEC (2003-2004)
Executive Committee, Tropical Conservation and Development Program (2002-2008)
Fellowship Committee, Tropical Conservation and Develop Program (2003-2005)
Peer Teaching Evaluation Committee for Dr. Madan Oli (2003)
Population Biology Workshop in Ecology co-host and co-organizer (UC Davis, 2000)
Student Representative, Population Biology GRT Executive Committee (UC Davis, 1996-1997)

EDITORIAL SERVICE AND OTHER ACTIVITIES BEYOND THE UNIVERSITY

Biotropica: Editor-in-Chief (2013-present), Associate Editor (2010-2013). 807 decisions 2010-2013.

Board of Editors: *Biotropica* (2007-Present, 116 manuscripts handled to date), *Ecology*, *Ecological Monographs* &, *Ecological Applications* (2008-2012, 22 manuscripts handled)

National Science Foundation Proposal Review Panels: DEB Ecology (2005), DEB Population and Evolutionary Processes (2007), DEB Population and Community Ecology (2011, 2013)

Reviewer for Journals (No. of reviews): *Ecology* (3), *Methods in Ecology & Evolution* (1) *Conservation Biology* (5), *Biological Conservation* (7), *Ecological Applications* (1), *Oecologia* (3), *Journal of Tropical Ecology* (2), *Journal of Ecology* (5), *New Phytologist* (1), *American Naturalist* (1), *Plant Ecology* (3), *Proc. Roy. Soc. Lond. B* (1), *Journal of Applied Ecology* (1), *Biotropica* (9), *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)

Ad-hoc reviewer for the National Science Foundation (No. of reviews): 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)

Other service as a reviewer (No. of reviews): UF FAES/CRIS Project Proposals (1), U. of Chicago Press (book chapter; 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), Promotion Portfolio Evaluation, Colorado State University (2011)

Service to the Association for Tropical Biology and Conservation: Councillor (2009-2011), ATBC Annual Meeting Academic Committee (2012), Co-organizer, Symposium on Amazonian Conservation, ATBC Annual Meeting (2012), Conservation Committee, Association for Tropical Biology & Conservation (2004-2006), Co-organizer, Symposium on Amazonian Conservation, ATBC Annual Meeting (2004)

INVITED PRESENTATIONS

- 2015 University of Florida, Department of Biology
- 2014 University of São Paulo, Institute of Biosciences
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, Dept. of Entomology and Nematology
Instituto Nacional de Pesquisas da Amazônia (Brazil)
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, Department of Ecology
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
 University of São Paulo (Brazil), Department of Ecology
 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, Brazil
- 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 (Brazil), 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 Association for Tropical Biology & Conservation, 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 Systematics & Evolution of 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

PROFESSIONAL DEVELOPMENT: University of Florida Science Communications 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, Latin American Studies Association, Brazilian Studies Association, Society for the Advancement of Chicanos and Native Americans in Science

INTERVIEWS & MEDIA APPEARANCES: NPR's *Morning Edition/Joe's Big Idea* (2014), TV Acre (Globo) *Bom Dia Amazônia* (2014), Rede Record, Rio Branco *Gazetta Entrevista com Rogério Wenceslau* (2014), Estado de São Paulo (2014), Nature.com (2014), WUFT (2014), Science/Science Insider (2014), Howler Soccer Magazine's *Dummy Podcast* (2014), SciDevNet (2013), WSLR *Florida-Caribe Radio Show* (2013), *The Scientist Magazine* (2006), *Science Minority Scientists Network* (2006), *Science's Next Wave* (2005), Televisão Universitária, Uberlândia (2005), Folha de São Paulo (2005), *Science Magazine's Minority Scientists Network* (2004), NPR's *Weekend Edition Saturday* (2002), BBC World Service *Radio 4* (2002), Austrian Public Television's *Modern Times* (2002).