

EDSON FIEDLER DE ABREU, JR.

Curriculum Vitae

PERSONAL INFORMATION

Contact

Department of Biology
 Angelo State University
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Online CV and relevant profiles

Academic website: <https://eabreu.weebly.com>
 Google Scholar: <https://scholar.google.com.br/citations?user=WsWNd20AAAAJ&hl=pt-BR>
 Research Gate: <https://www.researchgate.net/profile/Edson-Abreu-2>

EDUCATION

2016–2020	Ph.D. in Science (emphasis in Applied Ecology), University of São Paulo, Brazil, with one-year Predoctoral Fellowship at the Smithsonian Conservation Biology Institute's Center for Conservation Genomics. Thesis: Phylogenomics, diversification, and biogeography of Neotropical squirrels (Sciurillinae and Sciurinae: Sciurini) Advisor: Dr. Alexandre R. Percequillo Abroad supervisor: Dr. Jesús E. Maldonado
2011–2014	M.Sc. in Science (emphasis in Applied Ecology), University of São Paulo, Brazil, with Research Abroad Internship at the University of Minnesota. Dissertation: Nonvolant small mammals of Estação Ecológica de Bananal, SP Advisor: Dr. Alexandre R. Percequillo Abroad supervisor: Dr. Sharon A. Jansa
2004–2009	B.S. in Biological Sciences , University of Santa Cruz do Sul, Brazil. Honor's thesis: Mammalian fauna of medium and large sized in the RPPN of UNISC, RS Advisor: Dr. Andreas Köhler

ACADEMIC APPOINTMENTS

2023–present	Assistant Professor, Department of Biology; Curator of Mammals, Angelo State Natural History Collections (ASNHC). Angelo State University (ASU). Member, Texas Tech University System.
2021–2023	Postdoctoral Researcher. Gerstner Scholar, Richard Gilder Graduate School (RGGS), American Museum of Natural History (AMNH). Research: Taxonomic Review of the Genera of the Tribe Sciurini (Rodentia, Sciuridae) and the Evolution of Coat Color and Body Size within the Tribe Supervisor: Dr. Robert S. Voss

2022 **Adjunct Assistant Professor.** City College of New York (CCNY), City University of New York (CUNY).

GRANTS AND RESEARCH FELLOWSHIPS

2023–present	Research Funds, Dep. of Biology, College of Science and Engineering, ASU.
2021–2023	Gerstner Scholar Postdoctoral Research Funds, RGGS, AMNH.
2021–2023	Gerstner Scholar Postdoctoral Research Fellowship, RGGS, AMNH.
2019–2020	Doctoral Fellowship (GM/GD #165553/2017-0), National Council for Scientific and Technological Development (CNPq), Brazil.
2018	Collection Study Grant, AMNH.
2018	National Geographic Society. Explorers Grants program: “An exploratory expedition to Rio Abiseo National Park: revealing a mysterious new species of mammal and garnering genomic resources from a World Heritage Site”. Team member.
2018	Doctoral Abroad Fellowship (SWE #203692/2017-9), CNPq, Brazil.
2016–2017	Doctoral Fellowship (GM/GD #147145/2016-3), CNPq, Brazil.
2016	Technological Development Fellowship (DTI-C #381225/2016-0), CNPq, Brazil.
2012–2013	Masters Abroad Fellowship (BEPE-MS #12/15928-6), São Paulo Research Foundation (FAPESP), Brazil.
2011–2013	Masters Fellowship (#10/14633-7), FAPESP, Brazil.
2008–2009	Undergraduate Research Fellowship (PIBIC), CNPq, Brazil.
2007–2008	Undergraduate Research Fellowship (PIBIC), CNPq, Brazil.

AWARDS AND HONORS

2022	Early Career Travel Award, American Society of Mammalogists (ASM).
2021	Honors at the “Best Thesis Award, University of São Paulo, 10 th edition”.
2020	Carol and James Patton Award, American Society of Mammalogists, USA.
2019	Best oral presentation (Doctorate) at the “X Congresso Brasileiro de Mastozoologia & X Encontro Brasileiro para o Estudo de Quirópteros”, Brazil.
2016	Latin American Student Field Research Award, American Society of Mammalogists, USA.

PUBLICATIONS

Preprints available in public repositories

Abreu, E.F., Prado, J.R., Maldonado, J.E., Wilson, D.E., Percequillo, A.R., & Pavan, S.E. 2024. Quantitative species delimitation, tests for gene flow, and migration models uncover complex, recent speciation in tree squirrels. bioRxiv 2024.01.04.574244; <https://doi.org/10.1101/2024.01.04.574244>

Articles published or in press in peer-reviewed journals

Pavan, S.E., **Abreu, E.F.**, Sánchez-Vendizú, P.Y., et al. In press. A hint on the unknown diversity of eastern Andes: high endemicity and new species of mammals revealed through DNA barcoding. *Systematics and Biodiversity*.

Abreu, E.F., Dalapicolla, J., Furini, P.R., de la Sancha, N., Jansa, S.A., & Percequillo, A.R. 2022. Habitat stability shaped the demographic history of the Atlantic Forest endemic rodent *Euryoryzomys russatus* (Cricetidae, Sigmodontinae) during the Pleistocene. *Biological Journal of the Linnean Society*, 136: 520–535. <https://doi.org/10.1093/biolinnean/blac055>

- Novaes, R.L.M., Cláudio, V.C., Carrión-Bonilla, C., **Abreu, E.F.**, Wilson, D.E., Maldonado, J.E., & Weksler, M. 2022. Variation in the *Myotis keaysi* complex (Chiroptera, Vespertilionidae), with description of a new species from Ecuador. *Journal of Mammalogy*, 103(3): 540–559.
<https://doi.org/10.1093/jmammal/gyab139>
- Dalapicolla, J., **Abreu, E.F.**, Prado, J.R., Chiquito, E.A., Roth, P.R.O., Brennand, P.G.G., Pavan, A.C.O., Pereira, A., Mendes, F.R., Alvarez, M.R.V., Rios, E.O., Cassano, C.R., Miretzki, M., Vélez, F., Sevá, A.P., Percequillo, A.R. & Bovendorp, R.S. 2021. Areas of endemism of small mammals are underprotected in the Atlantic Forest. *Journal of Mammalogy*, 102 (5): 1390–1404.
<https://doi.org/10.1093/jmammal/gyab073>
- Abreu, E.F.**, Jung, D.M.H., Christoff, A.U., Valiati, V.H., Jansa, S.A. & Percequillo, A.R. 2021. Systematics of *Brucepattersonius* Hershkovitz, 1998 (Rodentia, Sigmodontinae): molecular species delimitation and morphological analyses suggest an overestimation in species diversity. *Systematics and Biodiversity*, 19(6): 544–570. <https://doi.org/10.1080/14772000.2021.1890270>
- Percequillo, A.R., Prado, J.R., **Abreu, E.F.**, Dalapicolla, J., Pavan, A.C., Chiquito, E.A., Brennand, P., Stepan, S.J., Lemmon, A.R., Lemmon, E.M. & Wilkinson, M. 2021. Tempo and mode of evolution of oryzomyine rodents (Rodentia, Cricetidae, Sigmodontinae): A phylogenomic approach. *Molecular Phylogenetics and Evolution*, 159: 107120. <https://doi.org/10.1016/j.ympev.2021.107120>
- Vásquez, L.C., Marques, T.S., **Abreu, E.F.**, Cioci, R., Piña, C.I. & Verdade, L.M. 2021. Diversity of small mammals on the early second commercial cycle of *Eucalyptus* plantations in southeast Brazil. *Forest Ecology and Management*, 489: 119052. <https://doi.org/10.1016/j.foreco.2021.119052>
- Teta, P., D'Elía, G., Jayat, J.P., Gonçalves, P.R., Libardi, G.S., de Oliveira, J.A., Moratelli, R., Percequillo, A.R., Prado, J.R., Ortiz, P.E., Hurtado, N., Schiaffini, M.I., **Abreu-Jr, E.F.**, Chiquito, E.A., Giménez, A.L. & Torres, J. 2020. On the distinction and availability of the new taxa proposed by Agnolin et al. 2019. *Mastozoología Neotropical*, 27(1): 155–171. <https://doi.org/10.31687/saremMN.20.27.1.0.20>
- Abreu-Jr, E.F.**, Pavan, S.E., Tsuchiya, M.T.N., Wilson, D.E., Percequillo, A.R. & Maldonado, J.E. 2020. Spatiotemporal Diversification of Tree Squirrels: Is the South American Invasion and Speciation Really That Recent and Fast? *Frontiers in Ecology and Evolution*, 8: 230.
<https://doi.org/10.3389/fevo.2020.00230>
- Abreu-Jr, E.F.**, Pavan, S.E., Tsuchiya, M.T.N., Wilson, D.E., Percequillo, A.R. & Maldonado, J.E. 2020. Museomics of tree squirrels: a dense taxon sampling of mitogenomes reveals hidden diversity, phenotypic convergence, and the need of a taxonomic overhaul. *BMC Evolutionary Biology*, 20: 77.
<https://doi.org/10.1186/s12862-020-01639-y>
- Abreu-Júnior, E.F.** & Percequillo, A.R. 2019. Small mammals of the Estação Ecológica de Bananal, southeastern Atlantic Forest, Brazil, with description of a new species of *Brucepattersonius* (Rodentia, Sigmodontinae). *Arquivos de Zoologia*, 50(1): 1–116. <https://doi.org/10.11606/2176-7793/2019.50.01>
- Santos, P.M., Bocchiglieri, A., Chiarello, A.G., et al. 2019. NEOTROPICAL XENARTHANS: a data set of occurrence of xenarthran species in the Neotropics. *Ecology*, 100(7): e02663.
<https://doi.org/10.1002/ecy.2663>
- Abreu-Júnior, E.F.**, Percequillo, A.R., Geise, L., Leite, Y.L.R. & Loss, A.C. 2018. Unveiling the identity of Kerr's Atlantic tree rat, *Phyllomys kerri* (Rodentia, Echimyidae). *Mammalian Biology*, 91: 57–70.
<https://doi.org/10.1016/j.mambio.2018.03.008>
- Abreu-Júnior, E.F.**, Charters, J.D. & Percequillo, A.R. 2018. The Giant Tree Rat, *Toromys grandis* (Wagner, 1845): new record with range extension and comments on its morphology, biology and conservation. *Mammalia*, 82(4): 400–406. <https://doi.org/10.1515/mammalia-2017-0042>
- Percequillo, A.R., Dalapicolla, J., **Abreu-Júnior, E.F.**, Roth, P.R.O., Ferraz, K.M.P.M. & Chiquito, E.A. 2017. How many species of mammals are there in Brazil? New records of rare rodents (Rodentia: Cricetidae: Sigmodontinae) from Amazonia raise the current known diversity. *PeerJ*, 5: e4071.
<https://doi.org/10.7717/peerj.4071>
- Bovendorp, R.S., Villar, N., **Abreu-Júnior, E.F.**, Bello, C., Regolin, A.L., Percequillo, A.R. & Galetti, M. 2017. ATLANTIC SMALL-MAMMAL: a dataset of communities of rodents and marsupials of the Atlantic Forests of South America. *Ecology*, 98(8): 2226. <https://doi.org/10.1002/ecy.1893>
- Abreu-Júnior, E.F.**, Brennand, P.G.G. & Percequillo, A.R. 2017. Diversidade de mamíferos do baixo Rio

- Jufari, Roraima, Brasil. *Papéis Avulsos de Zoologia*, 57: 37–55. <https://doi.org/10.11606/0031-1049.2017.57.05>
- Percequillo, A.R., Braga, C.A.C., Brandão, M.V., **Abreu-Júnior, E.F.**, Gualda-Barros, J., Lessa, G. M., Pires, M. R. S. & Hingst-Zaher, E. 2017. The genus *Abrawayaomys* Cunha and Cruz, 1979 (Rodentia: Cricetidae: Sigmodontinae): geographic variation and species definition. *Journal of Mammalogy*, 98: 438–455. <https://doi.org/10.1093/jmammal/gyw228>
- Abreu-Júnior, E.F.**, Freitas, M.A., Lapenta M.J., Venâncio, N.M., França D.P.F. & Percequillo, A.R. 2016. Marsupials and rodents (Didelphimorphia and Rodentia) of upper Rio Acre, with new data on *Oxymycterus inca* Thomas, 1900 from Brazil. *Check List*, 12(5): 1956. <http://dx.doi.org/10.15560/12.5.1956>
- Prado, J.R., Brennand, P.G.G., Godoy, L.P., Libardi, G.S., **Abreu-Júnior, E.F.**, Roth, P.R.O., Chiquito, E.A. & Percequillo, A.R. 2015. Species richness and areas of endemism of oryzomyine rodents (Cricetidae, Sigmodontinae) in South America: an NDM/VNDM approach. *Journal of Biogeography*, 42: 540–551. <https://doi.org/10.1111/jbi.12424>
- Schuch, M., **Abreu-Júnior, E.F.** & Lobo, E.A. 2012. Water quality of urban streams, Santa Cruz do Sul, Rio Grande do Sul, Brazil, based on physical, chemical and biological analyses. *Bioikos* 26(1): 3–12.
- Lobo, E.A., Voos, J.G. & **Abreu-Júnior, E.F.** 2011. Utilização de um protocolo de avaliação rápida de impacto ambiental em sistemas lóticos do sul do Brasil. *Caderno de Pesquisa Série Biologia*, 23: 18–32. <http://dx.doi.org/10.17058/cp.v23i1.4726>
- Abreu-Júnior, E.F.** & Kohler, A. 2009. Mastofauna de médio e grande porte na RPPN da UNISC, RS, Brasil. *Biota Neotropica*, 9(4): 169–174. <http://dx.doi.org/10.1590/S1676-06032009000400017>
- Abreu-Júnior, E.F.**, Sühs, R.B., Kohler, A. & Putzke, J. 2007. Ocorrência de *Mazama nana* Hensel, 1872 no Cinturão Verde de Santa Cruz do Sul, RS, Brasil. *Caderno de Pesquisa Série Biologia*, 19: 82–85.

Book chapters

- Percequillo, A.R., **Abreu-Júnior, E.F.**, Bovendorp, R.S., Brennand, P.G.G., Chiquito, E.A., Correa, L.S., Godoy, L.P., Libardi, G.S., Prado, J.R., Roth, P.R.O. & Salles, V.L. 2015. Roedores sigmodontíneos da Amazônia brasileira: composição, distribuição geográfica e diagnoses. In: *Pequenos Mamíferos Não-roedores da Amazônia Brasileira*, edited by Ana C. Mendes-Oliveira and Cleuton L. Miranda. Série Livros 2. Rio de Janeiro, Sociedade Brasileira de Mastozoologia, p. 149–186.
- Abreu-Júnior, E.F.**, Brennand, P.G.G., Chiquito, E.A., Jorge-Rodrigues, C.R., Libardi, G.S., Prado, J.R. & Percequillo, A.R. 2012. Dimorfismo sexual na Tribo Oryzomyini. In: *Mamíferos do Brasil: Genética, Sistemática, Ecologia e Conservação*, edited by Thales R. O. Freitas and Emerson M. Vieira. 1 ed. vol. 2. Rio de Janeiro, Sociedade Brasileira de Mastozoologia, p. 115–134.

TEACHING AND MENTORING EXPERIENCE

Undergraduate and graduate teaching

- 2023–present** **Angelo State University**, Assistant Professor.
 Undergraduate courses: General Zoology (BIOL-1413); Mammalogy (BIOL-4402);
 Principles of Biology I (BIOL-1106).
 Graduate course: Mammalogy (BIOL-5402).
- 2022** **City University of New York**, City College of New York. Teaching Assistant in laboratory sessions.
 Undergraduate course: Organismic Biology (Bio 20700).
- 2021** **University of São Paulo**, Museum of Zoology. Invited Lecturer.
 Graduate course: “Taxonomia e Evolução dos Mamíferos da América do Sul (MZP

5022)’.

- 2021** **Federal University of Viçosa.** Invited Lecturer.
Graduate course: “Mastozoologia Neotropical (BAN 609)”.
- 2019** **University of São Paulo,** Luiz de Queiroz College of Agriculture. Invited Lecturer and Teaching Assistant in laboratory sessions.
Graduate course: “Padrões e Processos Biogeográficos em Vertebrados Sul-Americanos (ECO 5026)”. 2019.

Undergraduate mentoring

- 2020–2022** **Marcos Ângelo Alves Filho.** Co-Advisor. University of São Paulo, Luiz de Queiroz College of Agriculture.
Research project: “Variação geográfica em esquilos do gênero *Guerlinguetus* (Rodentia: Sciuridae) na América do Sul”.

PARTICIPATION ON COMMITTEES

- Edgardo Manuel Rengifo Vásquez.** March 2023. **Ph.D. Defense**, Graduate Program in Applied Ecology. University of São Paulo.
Title: The role of the Cordillera Blanca (Ancash, Peru) in the evolutionary history of sigmodontinae rodents in northern Peru.
- Murilo Henrique Fonseca Silveira.** August 2021. **Master’s Qualifying Exam**, Graduate Program of Zoology. Federal University of Pará, Museu Paraense Emílio Goeldi.
Title: “Variação morfométrica no gênero *Sciurillus* Thomas 1914 (Rodentia: Sciuridae)”.
- Pamela Yesenia Sánchez Vendizú.** July 2021. **Master’s Defense**, Graduate Program of Zoology. Federal University of Pará, Museu Paraense Emílio Goeldi.
Title: Preliminary systematic revision of *Mesomys* (Rodentia: Echimyidae).
- Murilo Henrique Fonseca Silveira.** April 2021. **Master’s Qualifying Exam**, Graduate Program of Zoology. Federal University of Pará, Museu Paraense Emílio Goeldi.
Title: “Revisão sistemática do gênero *Sciurillus* Thomas 1914 (Rodentia: Sciuridae)”.
- Alessandra Vama Vieira.** June 2020. **Bachelor’s Defense**. Federal University of São Carlos (UFSCar).
Title: “Variabilidade genética em dois complexos de espécies de *Marmosops* subgênero *Marmosops* (Didelphimorphia: Didelphidae)”.

CONFERENCE TALKS, SYMPOSIA, AND WORKSHOPS

Invited talks

- 2020** “Systematics in the museomics era: diversity of Neotropical squirrels”. Talk at the XXXIII Congresso Brasileiro de Zoologia (March 01–06), Águas de Lindóia, SP, Brazil.
- 2019** “Museomics: a new approach on the systematics and taxonomy of Neotropical mammals”. Talk at the Symposium “Delimitando espécies na era da genômica: conceitos, paradigmas e desafios” in X Congresso Brasileiro de Mastozoologia & X Encontro Brasileiro para o Estudo de Quirópteros (September 09–13), Águas de Lindóia, SP, Brazil.
- 2017** “Small mammals of the Atlantic Forest: Diversity and Endemism”. Talk at the “1ª Semana da Biologia – UNISO” (September 4–6), University of Sorocaba, SP, Brazil.

Workshop

- 2010** “Field sampling, identification, and voucher preparation of mammals”. (6 hours). Workshop at the “XVII Semana Acadêmica da Biologia” (September 27–October 01), University of Santa Cruz do Sul, RS, Brazil.

Oral presentations

Including only talks where I was the presenter.

- 2023** **Abreu, E.F.**, Pavan, S.E., Maldonado, J.E., & Percequillo, A.R. Deep genetic divergence contrasts with phenotypic conservatism in populations of Neotropical pygmy squirrels. 13th International Mammalogical Congress (IMC-13). July 14–20, Anchorage, AK, USA.
- 2022** **Abreu, E.F.**, Prado, J.R., Maldonado, J.E., Wilson, D.E., Percequillo, A.R. & Pavan, S.E. Complex diversification with gene flow challenges species delimitation in tree squirrels (*Guerlinguetus*). 101st Annual Meeting of the American Society of Mammalogists, June 17–22, Tucson, AZ, USA.
- 2021** **Abreu, E.F.**, Pavan, S.E., Tsuchiya, M.T.N., McLean, B.S., Wilson, D.E., Percequillo, A.R. & Maldonado, J.E. Assessing effects of sample age in resolving a rapid Neotropical radiation of squirrels. 100th Annual Meeting of the American Society of Mammalogists, June 14–18, virtual.
- 2019** **Abreu, E.F.**, Pavan, S.E., Tsuchiya, M.T.N., Wilson, D.E., Percequillo, A.R. & Maldonado, J.E. Mitochondrial phylogenomics of Neotropical tree squirrels (Sciuridae, Sciurini). 10º Congresso Brasileiro de Mastozoologia & 10º Encontro Brasileiro para o Estudo de Quirópteros, September 9–13, Águas de Lindóia, SP, Brazil.
- 2014** **Abreu, E.F.**, Jansa, S.A. & Percequillo A.R. Phylogeography of *Euryoryzomys russatus* (Rodentia: Cricetidae: Sigmodontinae) in the Atlantic Forest. 7º Congresso Brasileiro de Mastozoologia, September 22–26, Gramado, RS, Brazil.
- 2012** **Abreu, E.F.** & Percequillo A.R. Riqueza de pequenos mamíferos não-voadores na Estação Ecológica de Bananal: uma abordagem comparativa. 6º Congresso Brasileiro de Mastozoologia, June 25–29, Corumbá, MS, Brazil.

OTHER PROFESSIONAL SERVICE

Society affiliations and service

- 2023–present** International Biogeography Society (IBS)
- 2016–present** American Society of Mammalogists (ASM)
- Member of the Biodiversity Committee (2018–present)
- 2012–present** Sociedade Brasileira de Mastozoologia (SBMz)
- Member of the Board of Directors (2019–2021)
- Chair of the Taxonomic Committee (2020–present)
- 2018–2019** Society for the Study of Evolution (SEE)

Reviewer for scientific journals

Biological Journal of the Linnean Society, Biota Neotropica, Boletim da Sociedade Brasileira de Mastozoologia, Checklist, Communications Biology, Journal of Mammalian Evolution, Journal of Mammalogy, Journal of Natural History, Mammalia, PeerJ, Vertebrate Zoology, Zoological Research.