

## Joyce Rodrigues do Prado

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Departamento de Ciências Biológicas – Universidade de São Paulo, Piracicaba, São Paulo, Brazil.

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### Professional

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| 2019 – current | Postdoctoral Fellow – Universidade de São Paulo, SP, Brazil.              |
| 2018 – 2019    | Postdoctoral Fellow – Universidade Federal do Espírito Santo, ES, Brazil. |

### Formal Education

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| 2015 – 2016 | Research Internship Abroad – Ecology and Evolutionary Biology (EEB) – University of Michigan, Ann Arbor, MI, USA. |
| 2013 – 2017 | Ph.D. Science, with an emphasis on Applied Ecology – Universidade de São Paulo, Piracicaba, SP, Brazil.           |
| 2010 – 2012 | M.Sc. Science, with an emphasis on Applied Ecology – Universidade de São Paulo, Piracicaba, SP, Brazil.           |
| 2004 – 2008 | B.Sc. in Biology – Universidade de São Paulo, Piracicaba, SP, Brazil.   |
| 2004 – 2008 | Teaching Degree in Biology – Universidade de São Paulo, Piracicaba, SP, Brazil.                                   |

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### Publications

#### Articles in Scientific Journals

DALAPICOLLA, J.; **PRADO, J.R.**; PERCEQUILLO, A.R.; KNOWLES L. That's my spot! Different genetic structure patterns in sympatric spiny rats from Western Amazon explained by habitat preferences (*in prep*).

RUBI, T.; **PRADO, J.R.**; KNOWLES, L.L.; DANTZER, B. Patterns of genetic and epigenetic diversity across a range expansion in the white-footed mouse (*Peromyscus leucopus*) (*in prep*).

**PRADO, J.R.**; ROCHA, R.G.; SILVA, H.B.; MENDES-OLIVEIRA, A.C.; PONTES

R.C.L.; MAUÉS, P.C.R.A.; COSTA, L. P. Is the Tapajós region, in fact, the ugly duckling in conservation priorities among other areas of endemism in the Amazon? (*in prep*). *Biodiversity and Conservation*.

**PRADO, J.R.**; RUBI, T.; BAUMGARTNER, J.; HOFFMAN S.M.; DANTZER. B.; KNOWLES, L.L. (*in review*) Postglacial colonization in the Great Lakes Region by the white-footed mouse (*Peromyscus leucopus*): conflicts between genomic and field data. *Journal of Mammalogy*.

**PRADO, J.R.**; KNOWLES, L.L.; PERCEQUILLO, A.R. (*in review*) A new species of South America marsh rat (*Holochilus*, Cricetidae) from northeastern Brazil. *Journal of Mammalogy*.

DALAPICOLLA, J.; ABREU-JÚNIOR, E. F.; **PRADO, J.R.**; CHIQUITO, E.A.; ROTH, P.R.O.; BRENNAND, P.G.G; PAVAN, A.C.; PEREIRA, A.; MENDES, F.; ALVAREZ, M.; RIOS, E.; CASSANO, C.; MIRETZKI, M.; VÉLEZ, F.; SEVÁ, A.; PERCEQUILLO, A. R.; BOVENDORP, R.S. (*in review*) Areas of endemism of small mammals are underprotected in the Atlantic Forest. *Journal of Mammalogy*.

PERCEQUILLO, A.R.; **PRADO, J.R.**; ABREU-JÚNIOR, E. F.; DALAPICOLLA, J.; PAVAN, A.C.; CHIQUITO, E.A.; STEPPAN, S.J.; LEMMON, A.R.; LEMMON, E.M.; WILKINSON, M. (*in review*) Tempo and mode of evolution of Oryzomyine rodents (Rodentia, Cricetidae, Sigmodontinae): a phylogenomic approach. *Molecular Phylogenetics and Evolution*.

13. **PRADO, J.R.**; KNOWLES, L.L.; PERCEQUILLO, A.R. (2021) New species boundaries and diversification history of marsh rat taxa clarify historical connections among ecologically and geographically distinct wetlands of South America. *Molecular Phylogenetics and Evolution*, v. 155, 106992

12. TETA, P.; D'ELIA, G.; JAYAT, J.P.; GONCALVES, P.R.; LIBARDI, G.S.; OLIVEIRA, J. A.; MORATELLI, R.; PERCEQUILLO, A. R.; **PRADO, J.R.**; ORTIZ, P.E.; HURTADO, N.; SCHIAFFINI, M.I.; Abreu, E.F.J; CHIQUITO, E.A.; GIMENEZ, A.L.; TORRES, J.C. 2020. On the distinction and availability of the new taxa proposed by Agnolin et al. 2019. *Mastozoología Neotropical*, v. 27, 1-17

11. PIRANI, R.M.; PELOSO, P.L.V.; **PRADO, J.R.**; POLO, E; KNOWLES, L.L.; RON, S.R.; RODRIGUES, M.T.; STURARO, M.J.; WERNECK, F.P. 2020. Diversification History of Clown Tree Frogs in Neotropical Rainforests (Anura, Hylidae, *Dendropsophus leucophyllatus* group). *Molecular Phylogenetics and Evolution*, v. 150, 106877.
10. **PRADO, J.R.**; PERCEQUILLO, A.R. 2019. *Aegialomys galapagoensis* (Rodentia: Cricetidae). *Mammalian Species*, v. 51, 92-99.
9. **PRADO, J.R.**; MENDONCA, G.C.; CHIQUITO, E.A. 2019. Topics in Oryzomyini rodents (Cricetidae, Sigmodontinae): natural history, diversity and the contribution of Brazilian researchers. *Boletim da Sociedade Brasileira de Mastozoologia*, v. esp, 74-85.
8. **PRADO, J.R.**, PERCEQUILLO, A.R., THOMAZ, A. T., KNOWLES, L.L. (2019) Species' similar life history traits versus biome specific associations as determinants of genetic structure: quantitative comparison of three South American marsh rat species (Rodentia: *Holochilus*). *Journal of Biogeography*, v. 46(4), 770-783.
7. RESENDE-MOREIRA, L.C., KNOWLES, L.L., THOMAZ, A.T., **PRADO, J.R.**, SOUTO, A.P., LEMOS-FILHO, J.P., LOVATO, M.B. (2019) Evolving in isolation: genetic tests reject recent connections of Amazonian savannas with the central Cerrado. *Journal of Biogeography*, v. 46(1), 196-211.
6. **PRADO, J. R.**; PERCEQUILLO, A. R. 2018. Systematic studies of the genus *Aegialomys* Weksler, et al. 2006 (Rodentia: Cricetidae: Sigmodontinae): geographic variation, species delimitation, and biogeography. *Journal of Mammalian Evolution*, v. 25, 71–118.
5. HE, Q., **PRADO, J. R.**; KNOWLES, L.L. 2017. Inferring the geographic origin of a range expansion: latitudinal and longitudinal coordinates inferred from genomic data in an ABC framework with the program X-ORIGIN. *Molecular Ecology*, v. 26, 6908–6920.
4. **PRADO, J. R.**; PERCEQUILLO, A. R. 2016. Systematic studies of the genus

*Aegialomys* Weksler, Percequillo and Voss, 2006 (Rodentia: Cricetidae: Sigmodontinae): Annotated catalogue of the types of the species-group taxa. *Zootaxa*, v. 4144, 477-498.

3. **PRADO, J. R.**; BRENNAND, P. G. G.; GODOY, L. P.; LIBARDI, G. S; Abreu, E. F. J; 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*, v. 42, 540-551.

2. **PRADO, J. R.**; PERCEQUILLO, A. R. 2013. On the geographic distribution of the genera of Tribe Oryzomyini on South America, with some comments on the patterns of diversity and Reig's Areas of Original Differentiation. *Arquivos de Zoologia*, v. 44, 1-120.

1. **PRADO, J. R.**; PERCEQUILLO, A. R. 2011. Ontogenetic and sexual variation in cranial characters of *Aegialomys Xanthaeolus* (Thomas, 1894)(Cricetidae: Sigmodontinae) from Ecuador and Peru. *Papéis Avulsos de Zoologia*, v. 51, 155-177.

#### **Book Published/Organized**

PERCEQUILLO, A.R.; SIMÕES, D.R; ALTEFF, E.F.; ABREU JUNIOR, E.F.; LIBARDI, G.S; GOMES, I.B.S.R.; **PRADO, J.R.**; CORAGEM, J.T.; SILVEIRA, L.F.; STORTI, L.F.; TURCI, L.C.B.; BERNARDES, M.L.; BRENNAND, P. G. G.; BOVENDORP, R. S. UHE Santo Antônio: Guia das espécies de fauna resgatadas. 1 ed. Porto Velho: Scriba Comunicação Corporativa, 2011. v. 1. 328p.

#### **Book Chapter Published**

FRAGA, C.N.; PEIXOTO, A.L.; LEITE, YLR; **PRADO, J.R.**; et al. Lista da fauna e flora ameaçadas de extinção no estado do Espírito Santo. In: Claudio Nicoletti de Fraga; Mileide de Holanda Formigoni; Flávia Guimarães Chaves. (Org.). Fauna e flora ameaçadas de extinção no estado do Espírito Santo. 1ed., 2019, p. 1-432.

PARDINAS, U.F.J.; RUELAS, D.; BRITO, J.; BRADLEY, L.C.; BRADLEY, R.D.; GARZA, N.O.; KRYTUFEK, B.; COOK, J.A.; SOTO, E C.; SALAZAR-BRAVO, J.; SHENBROT, G.I.; CHIQUITO, E.A.; PERCEQUILLO, A.R.; **PRADO, J.R.**; HASLAUER, R.; PATTON, J.L.; LEON-PANIAGUA, L. Family CRICETIDAE (TRUE HAMSTERS, VOLES, LEMMINGS AND NEW WORLD RATS AND MICE). In: Wilson, D.E., Lacher, T.E., Jr & Mittermeier, R.A. (Org.). Handbook of the Mammals of the World. 11ed.Barcelona: Lynx Edicions, 2017, v. 7, p. 204-535.

PERCEQUILLO, A.R.; ABREU JUNIOR, 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. Roedores sigmodontíneos da Amazônia brasileira: composição, distribuição geográfica e diagnoses. In: Mendes-Oliveira, Ana Cristina; Miranda, Cleuton Lima. (Org.). Pequenos Mamíferos Não-voadores da Amazônia Brasileira. 1ed. Rio de Janeiro: Sociedade Brasileira de Mastozoologia, 2015, p. 1-336.

ABREU JUNIOR, E.F.; BRENNAND, P.G.G.; CHIQUITO, E.A.; JORGE-RODRIGUES, C.R.; LIBARDI, G.S; **PRADO, J.R.**; PERCEQUILLO, A.R. Dimorfismo sexual na Tribo Oryzomyini. In: Thales R. O. Freitas; Emerson M. Vieira. (Org.). Mamíferos do Brasil: Genética, Sistemática, Ecologia e Conservação. 1ed.Rio de Janeiro: Sociedade Brasileira de Mastozoologia, 2012, v. 2, p. 115-134.

## Research & Education Funding

2019 – current	Coordenação de Aperfeiçoamento de Pessoal de Nível Superior (Proc. 88887.336032/2019-00)
2018 – 2019	Espírito Santo Research Foundation and Coordenação de Aperfeiçoamento de Pessoal de Nível Superior (Proc. 88887.185904/2018-00)
2013 – 2017	São Paulo Research Foundation (Proc. 2012/24099-3)
2015 – 2016	São Paulo Research Foundation (Proc. 2014/22444-0)
2010 – 2012	São Paulo Research Foundation (Proc. 2009/03547-5)
2007 – 2008	National Council for Scientific and Technological Development (CNPq)

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## Select Oral Presentations and Talks

**PRADO, J.R.**; KNOWLES, L.L.; PERCEQUILLO, A.R. 2019. Genomic data recover more recent divergence times for species of rodent genus *Holochilus*. XXXII Jornadas Argentinas de Mastozología.

**PRADO, J.R.** Open vegetation dynamics and its role in structuring the diversity of sigmodontine rodents. 2019. In Symposium Mamíferos, Moléculas e a Histórias das Américas. X Congresso Brasileiro de Mastozoologia.

**PRADO, J.R.** Integrating genomic and phenotypic data to delimit species. 2019. In Symposium Delimitando Espécies na era da genômica: conceitos, paradigmas e desafios. X Congresso Brasileiro de Mastozoologia.

PIRANI, R.; PELOSO, P.; **PRADO, J.R.**; POLO, E.; KNOWLES, L.L.; RON, S.; RODRIGUES, M.T.; WERNECK, F. Diversification History of Clown Tree Frogs in the Neotropical Rainforests (Anura, Hylidae, *Dendropsophus leucophyllatus* group). 2019. IX Congresso Brasileiro de Herpetologia.

DALAPICOLLA, J.; **PRADO, J.R.**; KNOWLES, L.L.; PERCEQUILLO, A.R. Genomic data reveal the phylogenetic relationships of one of the most abundant and least studied rodents in the Amazon (Echimyidae: *Proechimys*). 2019. X Congresso Brasileiro de Mastozoologia.

DALAPICOLLA, J.; **PRADO, J.R.**; PERCEQUILLO, A.R.; KNOWLES, L.L. Comparing phylogeographic patterns in three sympatric species of spiny rats (Rodentia: Echimyidae: *Proechimys*) in Western Amazonia. 2019. X Congresso Brasileiro de Mastozoologia.

DALAPICOLLA, J.; **PRADO, J.R.**; KNOWLES, L.L.; PERCEQUILLO, A.R. Phylogeny of *Proechimys* Allen species, 1899 (Rodentia: Echimyidae) based on genomic data. 2018. V Simpósio de Zoologia Sistemática.

RESENDE-MOREIRA, L.C.; THOMAZ, A.T.; **PRADO, J.R.**; SOUTO, A.P.; LEMOS-FILHO, J.P.; LOVATO, M. B.; KNOWLES, L.L. Severed connections and isolation of relictual Amazonian savannas inferred from genomic data.

2017. Evolution Meeting.

**PRADO, J.R.;** PERCEQUILLO, A.R. Geographic variation in the genus *Aegialomys* (Weksler, Percequillo & Voss, 2006) (Cricetidae: Sigmodontinae). 2012. VI Congresso Brasileiro de Mastozoologia.

**PRADO, J.R.;** PERCEQUILLO, A.R. Distribution patterns of rodents from the Oryzomyini Tribe (Rodentia: Sigmodontinae) in South America. 2008. IV Congresso Brasileiro de Mastozoologia.

### **Selected Poster Presentations**

**PRADO, J.R.;** ROCHA, R.G.; OLIVEIRA, A.C.M.; COSTA, L.P. The role of the Tapajós river in the Amazonian small mammal diversity pattern. 2019.

PRADO, J.R.; KNOWLES, L.L; PERCEQUILLO, A.R. Combining genomic and morphological data in a model-based approach to ascertain species-delimitation in the south american marsh rats (*Holochilus*). 2017. In: Evolution Meeting.

PRADO, J.R.; PERCEQUILLO, A.R.; KNOWLES, L.L. Genomic signatures of shared life history traits versus biome specific histories: comparison across 3 widespread marsh rat species (*Holochilus*). 2016. In: Evolution Meeting.

PRADO, J.R.; PERCEQUILLO, A.R. An Analysis of contact zone in the *Aegialomys* genus (Sigmodontinae: Oryzomyini). 2013. In: 11th International Mammalogical Congress.

ABREU JUNIOR, E.F.; PRADO, J.R.; PERCEQUILLO, A.R. Variação morfológica em uma população de *Bucepattersonius* (Hershkovitz, 1998) do nordeste de São Paulo, Brasil. 2012. In: II Congreso Latinoamericano de Matozoología.

ABREU JUNIOR, E.F.; PRADO, J.R.; PERCEQUILLO, A.R. Diferenciação craniométrica entre duas espécies simpátricas do gênero *Delomys* Thomas, 1917 (Cricetidae: Sigmodontinae). 2012. In: II Congreso Latinoamericano de Matozoología.

PRADO, J.R.; PERCEQUILLO, A.R. Diversidade e diferenciação da Tribo Oryzomyini (Rodentia: Sigmodontinae) na América do Sul. 2008. In: 16 Simpósio Internacional de Iniciação Científica da USP.

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### Teaching Experience

2020	Instructor. Biogeographic Patterns and Processes in South American Vertebrates (ECO5026). Grad level course, USP.
2019	Instructor. Mammals: Origin, Evolution and Biogeography (LCB0390). Undergrad level course, USP.
2019	Instructor. Biogeographic Patterns and Processes in South American Vertebrates (ECO5026). Grad level course, USP.
2018	Instructor. Short course: Evolution under the lens of genomics. In X Biology week, UFES.
2018	Instructor. Molecular Phylogenetics (PBAN9525). Grad and Undergrad level course, UFES.
2016	Graduate Student Instructor. Evolution (LGN0335), USP.
2012	Graduate Student Instructor. Vertebrate Zoology II (LCB0285), USP.
2004 – 2008	Teaching degree in Biology – Universidade de São Paulo. <b>Course work:</b> 35 credits (7 courses) specifically in education topics, such as <i>“Teaching Biology”</i> and <i>“Educational Psychology”</i> . <b>Teaching training:</b> 200 classroom hours (Elementary and High school).

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### University and Academic Services & Public Outreach

2020	II SBEMeeting organization committee.
2019	Treasurer of the Brazilian Society of Mammalogist (SBMz).
2019	Selection committee for admission to the Graduate Program in Applied Ecology, USP.
2018	Technical Opinion for the PhD plans of the Universidade



- de Santa Cruz (UESC).
- 2018 Technical Opinion for the PhD plans of the PG Ecology of the National Institute for Research in the Amazon (INPA).
- 2018 Review of Threatened Fauna in the State of Espírito Santo.
- 2012 Review of Threatened Fauna in the State of São Paulo.

#### Student Evaluation Committees

Pedro Henrique de Faria Peres. Filogenia e Delimitação Molecular de espécies do gênero *Mazama* Rafinesque, 1817 (Cetartiodactyla: Cervidae). PhD thesis - Universidade Estadual Paulista Júlio de Mesquita Filho (UNESP).

Christyan Lemos Bergamaschi. Baixa estruturação filogeográfica em *Sooretamys angouya* (Cricetidae: Sigmodontinae): uma espécie contínua em panmixia. 2020. Master dissertation - Universidade Federal do Espírito Santo (UFES).

Marcela Akemi Ishihara. Speciation across biomes: divergence and gene flow between *Enyalius* lizards in adjacent Neotropical biodiversity hotspots. 2020. Master dissertation - Universidade Federal do Espírito Santo (UFES).

Bruna da Silva Fonseca. Taxonomia integrativa revela diversidade críptica em *Trachops cirrhosus* (Chiroptera, Phyllostomidae). 2019. PhD thesis - Universidade Federal do Espírito Santo (UFES).

Amanda Santiago Ferreira Lantyer Silva. Filogeografia e Genômica Populacional de Anuros Neotropicals: estruturação, diversidade e demografia histórica. 2019. PhD thesis - Universidade Estadual Paulista Júlio de Mesquita Filho (UNESP).

Jeronymo Dalapicolla. Integrative taxonomy of the genus *Proechimys* (Rodentia: Echimyidae) from Western Amazon. 2019. PhD thesis - Universidade de São Paulo (USP).

Laís Amorim Ferreira. Múltipla paternidade e razão sexual da população reprodutiva de *Caretta caretta*. 2019. Master dissertation - Universidade Federal do Espírito Santo (UFES).

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Guilherme Sanches Corrêa do Nascimento. Biogeografia dos Barbeiros Rhodniini. 2019. Master dissertation - Universidade Federal do Espírito Santo (UFES).

Paulo Ricardo de Oliveira Roth. Pequenos roedores holocênicos do nordeste do Rio Grande do Sul: Descrevendo comunidades e suas respostas ante a mudanças ambientais. 2018. PhD thesis - Universidade de São Paulo (USP).

Gabriela Colombo de Mendonça. Estrutura Espacial e genética de duas espécies de *Juliomys* (Rodentia, Cricetidae) em um gradiente altitudinal. 2018. Undergrad Final Monography - Universidade Federal do Espírito Santo (UFES).

Thaís Amorim Alves. Morcegos (Mammalia: Chiroptera) da Floresta Nacional do Amaná, Pará, Brasil. 2018. Undergrad Final Monography - Universidade Federal do Espírito Santo (UFES).

#### Fieldwork:

Participation and organization of several fieldworks sampling mammals in the Amazon and the Atlantic Forest. All specimens and tissues for DNA collected during the fieldwork were catalogued in scientific collections.

#### Peer reviews:

Check List, Mammalia, Zoologica Scripta, Biota Neotropica, PeerJ, Journal of Natural History, and Ecology and Evolution.

#### Professional Societies:

Society for the Study of Evolution (SSE)

Brazilian Society of Mammalogist (SBMz)

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#### **Other relevant information**

I have been studying evolutionary processes, especially in rodents, since 2007, conducting several projects within this group. I have extensive experience working with morphological variation, model selection and genetic analyzes applied to phylogeography, phylogenetics and species delimitation. In addition, I have extensive experience in generating,

processing (bioinformatics), and analyzing genomic data and good skills working with programming languages. I also have a good background working with ecological niche modeling and population demographic history.

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## References

Prof. L. Lacey Knowles – University of Michigan, USA (knowlesl@umich.edu).

Prof. Alexandre R. Percequillo – Universidade de São Paulo, Brazil (percequillo@usp.br).