

Renata Beco, Msc.

rpereir4@vols.utk.edu
renatabeco9@gmail.com

Education

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| 2022 – present | PhD Candidate University of Tennessee, Department of Ecology and Evolutionary Biology, Knoxville, TN Advisor: Dr. Elizabeth Derryberry |
| 2016 – 2018 | MSc. Biological Sciences (Zoology). Universidade de São Paulo, São Paulo, Brazil Thesis Title: Evolution of acoustic and visual signals in the antwrens of the Tribe Formicivorini (Aves, Thamnophilidae). Advisor: Dr. Luís Fábio Silveira. Co-advisor: Dr. Gustavo A. Bravo |
| 2011 - 2015 | BSc. Biological Sciences. Universidade de São Paulo, São Paulo, Brazil |

Research and Academic Appointments

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| 2021 – 2022 | Research Assistant Universidade Estadual do Maranhão, Centro de Estudos Superiores de Caxias Brazil |
| 2014 – 2016 | Curational and Molecular Lab Assistant Universidade de São Paulo, Museu de Zoologia, Brazil |

Publications

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1. Valtuille T., Ubaid F.K., **Beco R.**, Brandão R.A. (2024) Diet of the vulnerable White-browed Guan Penelope jacucaca (Galliformes, Cracidae) in two contrasting Caatinga fragments in Northeastern Brazil. *Ethology Ecology & Evolution*, 36(3), 245–261.
<https://doi.org/10.1080/03949370.2023.2263410>
 2. Glaser, T., Martins, P., **Beco, R.**, Bento, C. A., Cappellari, A. R., La Banca Oliveira, S., ... & Ulrich, H. (2024). Impairment of adenosine signaling disrupts early embryo development: unveiling the underlying mechanisms. *Frontiers in Pharmacology*, 14, 1328398.
 3. Santos, C. S. L., C. Licarião, W. Girão, **R. Beco**, and F. K. Ubaid. (2022). First description of the nest and eggs of Ceará Leaf-tosser *Sclerurus cearensis*, with a review of the breeding biology of genus *Sclerurus*. *Bulletin of the British Ornithologists' Club*, 142(2), 155-163.
 4. Ubaid, F. K., and **R. Beco**. (2022). Interspecific foraging association between the cryptic forest-falcon, *Micrastur mintoni* and primates in an Amazon rainforest in Brazil. *Acta Amazonica*, 52, 49-52.
 5. **Beco R.**, L. F. Silveira, E. P. Derryberry and G. A. Bravo. (2021). Ecology and behavior predict an evolutionary trade-off between song complexity and elaborate plumages in antwrens (Aves, Thamnophilidae). *Evolution*. doi: 10.1111/evo.14325
 6. Fecchio, A., M. R. Lima, J. A. Bell, F. Schunck, A. H. Corrêa, **R. Beco**, A. E. Jahn, C. S. Fontana, T. W. da Silva, M. Repenning, É. M. Braga, J. E. Garcia, C. Lugarini, J. C. R. Silva, L. H. M. Andrade, J. H. Dispoto, C. C. dos Anjos, J. D. Weckstein, K. Kirchgatter, V. A. Ellis, R. E. Ricklefs, and G. M. De La Torre. (2021).

Loss of forest cover and host functional diversity increases prevalence of avian malaria parasites in the Atlantic Forest. *International Journal for Parasitology*.

7. Bravo, G. A., B. M. Whitney, R. Belmonte-lobes, M. R. Bornschein, N. Aristizábal, **R. Beco**, J. Battilana, L. N. Naka, A. Aleixo, M. R. Pie, L. F. Silveira, E. P. Derryberry, and R. T. Brumfield. (2021). Phylogenomic analyses reveal non-monophyly of the antbird genera *Herpsilochmus* and *Sakesphorus* (Thamnophilidae), with description of a new genus for *Herpsilochmus sellowi*. *Ornithology*, 138, 1-16.
8. Glaser, T., S. L. B. De Oliveira, A. Cheffer, **R. Beco**, P. Martins, M. Fornazari, C. Lameu, H. M. Costa Junior, R. Coutinho-Silva, and H. Ulrich (2014). Modulation of mouse embryonic stem cell proliferation and neural differentiation by the P2X7 receptor. *PLoS ONE* 9:96281. doi: 10.1371/journal.pone.0096281

Research Grants and Fellowships

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| 2024 | Riechert Graduate Student Award 2024 Dr. Susan Riechert, retired faculty member from the EEB department at the University of Tennessee |
| 2024 | EEB Graduate Research Award 2024 EEB department at the University of Tennessee |
| 2024 | AOS Research Awards 2024 American Ornithological Society |
| 2017 | Collection Study Grant American Museum of Natural History |
| 2017 | Research Internship Scholarship São Paulo Research Foundation (FAPESP), Grant 17/16938-9 |
| 2016 – 2018 | Graduate Fellowship National Council of Technological and Scientific Development (CNPq), Grant 133901/2016-5 São Paulo Research Foundation (FAPESP), Grant 16/08814-5 |
| 2012-2014 | Undergraduate Fellowship São Paulo Research Foundation (FAPESP), Grant 12/05333-5 |

Presentations at Professional Meetings

R. Beco, G. Macedo, G. A. Bravo, E. P. Derryberry. Female song evolution in a highly social clade of suboscine birds (Aves, Thamnophilidae). In: II Ornithological Congress of the Americas, 2023, Gramado, Brazil. II Ornithological Congress of the Americas, 2023.

R. Beco, L. F. Silveira, E. P. Derryberry, G. A. Bravo. Ecology and behavior predict an evolutionary trade-off between song complexity and elaborate plumages in antwrens. In: Animal Behavior Conference, 2023, Bloomington, IN, USA.

R. Beco, L. F. Silveira, E. P. Derryberry, G. A. Bravo. Ecology and behavior predict an evolutionary trade-off between song complexity and elaborate plumages in antwrens (Aves, Thamnophilidae). In: Virtual Evolution, 2021, Virtual.

R. Beco, L. F. Silveira, G. A. Bravo. Evolution of visual signals in the antwrens of the tribe Formicivorini (Aves, Thamnophilidae). In: I Ornithological Congress of the Americas, 2017, Puerto Iguazú, Argentina. I Ornithological Congress of the Americas, 2017.

Beco R, Glaser T, Ulrich H. Adenosine Receptors in Embryonic Stem Cell Biology. In: IV Meeting of the Brazilian Purine Club 'Perspectives of Purinergic Signaling: From Structures to Functions and Translational Research', 2013, Canela, Brazil. IV Meeting of the Brazilian Purine Club "Perspectives of Purinergic Signaling: From Structures to Functions and Translational Research", 2013.

Beco RP, Glaser T, Ulrich H. Evaluation of P1 purinergic receptors actions in the maintenance of pluripotency and proliferation in embryonic stem cells. In: III Meeting of the Brazilian Purine Club 'Purinergic Signaling: Structure, Functions and Therapeutic Applications', 2012, Ouro Preto, Brazil. III Meeting of the Brazilian Purine Club "Purinergic Signaling: Structure, Functions and Therapeutic Applications", 2012.

Service for Professional Journals

Reviewer for: *Animal Behaviour* and *The Science of Nature (Naturwissenschaften)*

Teaching

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| Spring 2024 | Biology 102 - Introduction to Biology: Biodiversity and Ecology. University of Tennessee, Knoxville. |
| Fall 2023 | Biology 101 - Introduction to Biology: Cells, Genetics, and Physiology. University of Tennessee, Knoxville. |
| Spring 2023 | EEB422 - Landscape Ecology. University of Tennessee, Knoxville. |
| Fall 2022 | Biology 101 - Introduction to Biology: Cells, Genetics, and Physiology. University of Tennessee, Knoxville. |

Outreach

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| 2024 | Darwin Day 2024 McClung Museum Booth about bird behavior and song |
| 2024 | McClung Enhanced Homeschool Event: Birds of a feather learn together Booth about bird morphology, diversity, sexual dimorphism and evolution |
| 2023 | Math in Nature Girl Scout, NIMBioS at UT Gardens |
| 2023 | Summer ACE Program El Paso, Texas I designed crochet birds from seven different species of the suborder Tyranni. They were used at this outreach project organized by the 'Easy as Play'. |
| 2023 | Darwin Day 2023 McClung Museum Booth about animal behavior and heat stress |
| 2022 | Science Expo North Clinton Elementary Booth about birdsong |