Renata Magalhães Pirani
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Website: renatapirani.com

My research examines the evolution, genomic, ecology, and conservation of Neotropical biodiversity. More specifically, I integrate genetic and evolutionary approaches to investigate how historical and ecological processes generated the high Neotropical biodiversity across different biological levels.

Appointments

05/2025 – pres.	**Postdoctoral Fellowship** - Vale Institute of Technology, PA, Brazil (remote).
07/2023 – 06/2025	**Chancellor's Postdoctoral Fellowship** - University of California, Los Angeles, United States. Ecology and Evolutionary Biology Department (supervisor: Prof. Michael Alfaro).
03/2020 – 02/2023	**Postdoctoral Fellow in Genetics and Lizards Adaptation** - University of Nevada – Reno, NV, United States, in collaboration with the Smithsonian Tropical Research Institute (STRI) in Panama (supervisor: Prof. Michael L. Logan).
08/2019 – 02/2020	**Postdoctoral Fellow in Genetics, Conservation and Evolutionary Biology** - Instituto Nacional de Pesquisas da Amazônia (INPA), Brazil. Genetics, Conservation and Evolutionary Biology Department (supervisor: Prof. Fernanda P. Werneck).
01-07/2015	**Adjunct Professor -** Centro Universitário Una**,** Belo Horizonte, Brazil. Taught biological sciences to undergraduates and served as undergraduate research advisor.
04-12/2011	**Adjunct Professor -** Centro Universitário Una, Belo Horizonte, Brazil. Taught biological sciences to undergraduates and served as undergraduate research advisor.
2009 – 2015	**Independent Consultant for Environment Impacts, Herpetofauna** - Conducted environmental impact assessments for over 20 projects in Brazil. Main tasks included: amphibian and reptile surveys, identification of endangered species, habitat assessments, and mitigation methods reports. Clients included: Samarco, Voltorantim, and Companhia Vale do Rio Doce

Education

2015 – 2019	**Ph.D.** in Genetics, Conservation and Evolutionary Biology, Instituto Nacional de Pesquisas da Amazônia (INPA), Brazil
2009 - 2011	**M.Sc.** in Animal Biology, Universidade Federal de Viçosa (UFV), Brazil
2005 - 2008	**B.Sc.** in Biology, Centro Universitário Una, Brazil

Publications

20 total | 351 citations | h-index: 7, i10-index: 6 | source: Google Scholar 20 Oct 2025 corresponding author†, equal authorship*

Under Review

1. **Pirani RM**†, Rainha RN, Magalhães FM, da Silveira Filho R, Werneck FP, Domingos FMCB, Vasconcellos MM. Genomics in the Neotropics: Advances, Biases, and Future Directions for Evolutionary Research in Tetrapoda. *Genetics and Molecular Biology.*
2. **Pirani RM**†, Azevedo JAR, Thomaz AT, Carnaval AC, Werneck FP, Alfaro ME. Integrating Genomic Tools to Predict Climate Adaptation and Vulnerability across a Latitudinal Gradient in a Brazilian Atlantic Forest Treefrog (*Dendropsophus elegans*). *Heredity.* https://www.researchsquare.com/article/rs-7706720/v1 (preprint)
3. **Pirani, RM**†**,** Domingos FMCB, Chang J, Werneck FP, Moura MM, Alfaro ME. The relative influence of

biological traits and environmental variables on amphibian diversification rates change at different biogeographic scales. *Npj Biodiversity.*

4. Pyron, R., Moura, M., Bowie, R., Freire de Brito, S., Ceron, K., Colston, T., Esselstyn, J., Magalhães Guedes, J. J., Guralnick, R., Valentim, H., Mooers, A., de Toledo Moroti, M., Paiva e Paiva, M. F., Pennell, M., **Pirani, RM**., Sales Souza, J. A., Riva Tonini, J. F., Upham, N., de Oliveira Xavier, J. P., & Jetz, W. Anthropocene Imperilment of Ancient Diversity and Evolutionary Potential in Terrestrial Vertebrates *Science*. https://www.researchsquare.com/article/rs-7556378/v1 (preprint)

5. Moraes LJCL, Rodrigues MT, Werneck FP, Lima AP, ..., **Pirani RM**, ..., Fouquet A, et al. Hidden diversity reveals Amazonia as the major knowledge shortfall in Neotropical frogs. *Nature Ecology and Evolution*.

——— *Published* ———

21. 2026. López Tacoaman, YF, Alcivar, M, Alujević, K, Bakewell, L, Curlis, JD, Gonzalez, A, Gripshover, ND, Gulati, S, **Pirani, RM**, Romero, D, Wuthrich, KL, Cox, CL, Logan, ML, McMillan, WO, Fontaine, SS, Williams, CE. Host and environmental drivers of gut microbiome variation in wild Anolis lizards. *Molecular Ecology.* **doi:** https://doi.org/10.1111/mec.70358

20. 2025. Yves A, Azevedo JAR, **Pirani RM**, Werneck FP. Local adaptation and vulnerability to climate change in a widespread Amazonian Forest lizard. *Heredity*. **doi**: https://doi.org/10.1038/s41437-025-00765-x

19. 2025. **Pirani RM***†, Arias C*, Curlis JD, Nicholson DJ, Stapley J, Mcmillan WO, Cox CL, Logan ML. The genetic basis of a colorful signal: The polymorphic dewlap of the slender anole (*Anolis apletophallus*). *Heredity*. **doi**: https://doi.org/10.1038/s41437-025-00763-z

18. 2024.**Pirani RM**†**,** Arias C, Curlis JD, Nicholson DJ, Chung AK, Vargas M, Charles K, Cox CL, Mcmillan WO, Logan ML. A high-quality genome for the slender anole (*Anolis apletophallus*), an emerging model for field-studies of tropical ecology and evolution. *G3 Genes|Genomes|Genetics*. **doi**: 10.1093/g3journal/jkad248

17. 2022.**Pirani RM**†, Tonini JFR, Thomaz AT, Napoli M, Knowles LL, Werneck FP. Deep genomic divergence and phenotypic admixture of the treefrog *Dendropsophus elegans* (Hylidae: Amphibia) coincide with riverine boundaries at Brazilian Atlantic Forest. *Frontiers Ecology and Evolution.* **doi**: 10.3389/fevo.2022.765977

16. 2021. Prado JR, Percequillo AR, **Pirani RM**, Thomaz AT. Biome effect on phenotypic and genomic differences in the South America marsh rats. *Zoological Journal of the Linnean Society.* **doi**: 10.1093/biolinnean/blab132

15. 2020. **Pirani RM**†, Peloso PLV, Prado JR, Polo E, Ron S, Rodrigues MT, Knowles LL, Werneck FP. Diversification History of Clown Tree Frogs in the Neotropical Rainforests (Anura, Hylidae, *Dendropsophus leucophyllatus* group). *Molecular Phylogenetics and Evolution* **doi**: 10.1016/j.ympev.2020.106877

14. 2019.**Pirani RM**†, Werneck FP, Thomaz AT, Kenney M, Sturaro M, Ávila-Pires TC, Peloso PLV, Rodrigues MT, Knowles LL. Testing main Amazonian rivers as barriers across time and space within widespread taxa. *Journal of Biogeography*. **doi**: 10.1111/jbi.13676

13. 2017. Moraes LCL, Almeida AP, Fraga R, Zamora RR, **Pirani RM**, Silva AAA, Carvalho VT, Gordo M, Werneck FP. Integrative overview of the herpetofauna from Serra da Mocidade, a granitic mountain range in Northern Brazil. *ZooKeys.* **doi**: 10.3897/zookeys.715.20288

12. 2017. Fraga R, Almeida AP, Moraes LJCL, Gordo M, **Pirani RM**, Zamora RR, Carvalho VT, Passos P, Werneck FP. Narrow endemism or insufficient sampling? Geographical range extension and morphological variation of the poorly known *Atractus riveroi* Roze, 1961 (Serpentes: Dipsadidae). *Herpetological Review*, 2017: 48(2), 281–284. PDF

11. 2014. Silva EAP, Silva ET, **Pirani RM**, Mângia S. Distress calls of two species of the *Bokermannohyla circumdata* group (Amphibia, Anura, Hylidae). *Herpetology Notes*. PDF

10. 2013. **Pirani RM**†, Nascimento LB, Feio RN. Anurans in a Forest Remnant in the transition zone between the Cerrado and Atlantic Rain Forest Domains in Southeastern Brazil. *Annals of Brazilian Academy of Sciences*. **doi**: 10.1590/S0001-37652013000300014

9. 2013. Gaiga R, Loiola C, Mângia S, **Pirani RM**. Advertisement call and tadpoles of *Bokermannohyla vulcaniae* (Vasconcelos and Giaretta, 2003) (Amphibia: Anura: Hylidae). *South American Journal of Herpetology*. **doi**: 10.2994/SAJH-D-12-00023.1

8. 2013. Moura MR, Costa HC, **Pirani RM**. Rediscovery of *Phalotris concolor* Ferrarezzi, 1994 (Serpentes: Colubridae: Elapomorphini). Zoologia. **doi**: 10.1590/S1984-46702013000400009

7. 2013. Moura MR, **Pirani RM**, Silva VX. New records of snakes (Reptilia, Squamata) in Minas Gerais, Brazil. *Check List*. **doi**: 10.15560/9.1.99

6. 2011. Santana DJ, Motta AP, **Pirani RM**, Silva ET, Feio RN. Advertisement call and tadpole of *Chiasmocleis mantiqueira* Cruz, Feio and Cassini, 2007 (Anura, Microhylidae). *Journal of Herpetology*. **doi**: https://www.jstor.org/stable/41515008

5. 2010. **Pirani RM**†**,** Pezzuti TL, Motta AP, Feio RN. The tadpole of *Hylodes babax* Heyer, 1982 (Amphibia, Anura, Hylodidae). *Zootaxa (Online)*. **doi**: 10.11646/zootaxa.2800.1.5

4. 2010. Motta AP, **Pirani RM,** Silva ET, Santana DJ, Mangia S, Feio RN. New record and distribution extension of *Zachaenus carvalhoi* Izecksohn 1983 (Anura, Cycloramphidae) in south-eastern Brazil. *Herpetology Notes*. PDF

3. 2010. **Pirani RM**†, Mangia S, Santana DJ, Assis B, Feio RN. Rediscovery, distribution extension and natural history notes of *Hylodes babax* (Anura, Hylodidae) with comments on southeastern Brazil biogeography. *South American Journal of Herpetology*. **doi**: 10.2994/057.005.0202

2. 2010. **Pirani RM**†**,** Silva ET, Feio RN. Tadpole cannibalism in *Leptodactylus cunicularius* Sazima & Bokermann, 1978 (Anura, Leptodactylidae) at a temporary stream in South-eastern Brazil. *Herpetology Notes*. PDF

1. 2009. Kleinsorge JMD, Fonseca RAM, **Pirani RM**, Nascimento LB. Amphibia, Anura, Hylidae, *Itapotihyla langsdorffii* (Duméril and Bibron, 1841): Correction of older record and distribution extention. *Check List (São Paulo. Online)*. **doi**: 10.15560/5.4.876

Book Chapter

B1. 2022. Moraes LCL, Gordo M, **Pirani RM**, Rainha RN, Almeida AP, Oliveira, AFS, Oliveira ME, Silva, AAA, Werneck FP. 2022 Amphibians and squamates in Amazonian flooded habitats, with a study on the variation of amphibian assemblages along the Solimões River. *Book Fundamentals of Tropical Freshwater Wetlands*. Chapter 13. **doi**: 10.1016/B978-0-12-822362-8.00032-3

Fellowships, Grants, and Awards ($890,000+)

——— Fellowships ———

2023 - 2025 Chancellor's Postdoctoral Fellowship – University of California, Los Angeles, USA ($67,000/year for 2 years + $5,000/year for research expenses).
2020 - 2023 Postdoctoral Fellowship – University of Nevada, Reno, USA ($48,000/year for 3 years).
2019 - 2020 Postdoctoral Fellowship – PNPD/CAPES – Instituto Nacional de Pesquisas da Amazônia – INPA, Brazil (R$55,200/year for 5 years).
2015 - 2019 Doctoral fellowship – CNPQ – Instituto Nacional de Pesquisas da Amazônia – INPA, Brazil (R$26,400/year for 4 years).
2016 - 2017 Doctoral Fellowship - Science without Borders (CNPq) at the University of Michigan, USA ($20,000).

2009 - 2011 Master Fellowship – CAPES - Universidade Federal de Viçosa, Brazil (R$28,800).
2007 – 2008 Scientific Initiation research - Centro Universitário Una, Brazil (R$6,000).

——— *Grants* ———

2025 - Pending STAR: Genomic adaptation to high altitude environments in Amazonian treefrogs – University of California, Los Angeles, USA ($399,976 - National Science Foundation).

——— *Awards* ———

2024 Nomination for the Chacellor's Award for Postdoctoral Research, UCLA.
2019 Society for the Study of Evolution-SSE Evolution Meeting Travel Award ($825).
2017 Society for Systematic Biologists-SSB Grant Student Awardee (GSRA) ($1,000).
2017 Society for the Study of Evolution-SSE Travel Award ($1,500).
2009 Fundação Arthur Bernardes (FUNARB) – Universidade Federal de Viçosa, Brazil (R$1,200).

Professional Presentations

———*Invited Presentations*———

2026 Climate Meeting – University of California, Santa Barbara, USA.
2026 Dornsife College – University of Southern California, USA.
2025 Evolution Ecology & Orgns Bio Dept – University of California, Riverside, USA.
2025 Museum of Vertebrate Zoology – University of California, Berkeley, USA.
2025 Amphibian Genomics Consortium - Virtual talk.
2020 I Encontro CFT / INPA - Virtual talk about Scientific Communication, Brazil.
2020 X Workshop PPG GCBev/INPA - Virtual Herpetology Class to undergraduate students, Brazil
2020 Centro Universitário Una - Virtual Herpetology Class, Brazil.
2020 Smithsonian Tropical Research Institute (STRI) - Virtual Science talks, Panama.
2020 Universidad Nacional de Colombia - Virtual class to undergraduate students, Colombia.
2020 Universidade Estadual de Campinas - Virtual class to undergraduate students, Brazil.

———*Talks*———

2025 XI Congresso Brasileiro de Herpetologia, Brazil. Talk presented.
2024 1st Congresso Brasileiro de Biologia Evolutiva, Brazil. Talk presented by coauthor.
2024 10th World Congress of Herpetology, Borneo. Talk presented by coauthor.
2023 X Congresso Brasileiro de Herpetologia, Brazil. Talk presented by coauthor.
2023 The Society of Integrative and Comparative Biology (SICB), Seattle, WA, United States. Talk and Poster presented by coauthors (4 total).
2022 The Society of Integrative and Comparative Biology (SICB), Phoenix, AZ, United States.
2019 IX Congresso Brasileiro de Herpetologia, Campinas, Brazil.
2019 Evolution Meeting – Providence, RI, United States.
2011 IX Congresso Latino-Americano e Brasileiro de Herpetologia, Brazil.

———*Poster*———

2025 XI Congresso Brasileiro de Herpetologia, Brazil. 1 Poster presented.
2023 X Congresso Brasileiro de Herpetologia, Brazil. 1 Poster presented by coauthors.
2017 Evolution Meeting – Portland, OR, United States. 1 Poster.
2012 7th World Congress of Herpetology, Canada. 1 Poster.
2011 IX Congresso Latino-Americano e Brasileiro de Herpetologia, Brazil. 3 Posters.
2010 IV Simpósio de Anfíbios, Brazil. 4 Posters.
2009 IV Congresso Brasileiro de Herpetologia, Brazil. 3 Posters.
2008 XXII Jornada de Biologia da PUC Minas, Brazil. 1 Poster.

2007 IV Simpósio Brasileiro de Animais Silvestre e Selvagens, Brazil. 1 Poster.
2007 III Congresso Brasileiro de Herpetologia, Brazil. 1 Poster.
2007 VII National Congress of Scientific Initiation and V International Congress of Scientific Initiation, Brazil. 1 Poster.

Main Recent Projects Involved

Completed: Amphibian speciation rates are mostly determined by species microhabitat, body size and body mass (Chancellor's Postdoctoral Project).

Current: Climate change and the dynamics of the Amazonian landscape: an integrative approach to phylogeographic, adaptive diversity and demographic responses of herpetofauna (CNPq Universal, Brazil).

Completed: Rules of Life - Integrating responses to environmental change: roles of behavior, plasticity, and evolution at Anoles species in Panama (NSF 20-502: Division of Environmental Biology)

Teaching Experience

——— Instructor———

2025 **EEB 100/100L –** (Summer Instructor, 138 undergraduates), Ecology and Evolutionary Biology Department, University of California, Los Angeles, USA.

———Guest Lecturer———

2025 **Statistical Phylogeography–** Hybrid course from different universities in Brazil and Uruguai. Taught at the workshop leaded by Prof. Fernanda P. Werneck.
2023 **Phylogeography/Ambiental Adaptation –** Instituto Nacional de Pesquisas da Amazônia, Manaus, Brazil. Taught at the workshop leaded by Prof. Fernanda P. Werneck.
2022 **Filogeografia 2022 –** Universidad de la República, Uruguay. Taught at the workshop leaded by Prof. Arley Camargo.
2021 **Phylogeography/Ambiental Adaptation –** Instituto Nacional de Pesquisas da Amazônia, Manaus, Brazil. Taught at the workshop leaded by Prof. Fernanda P. Werneck.
2019 **Advanced Phylogeography, Conservation and Evolutionary Genomics –** Instituto Nacional de Pesquisas da Amazônia, Manaus, Brazil. Taught at the workshop leaded by Prof. Lacey Knowles and Prof. Camila Ribas.
2017 **Phylogeography based on models/Statistical Phylogeography –** Instituto Nacional de Pesquisas da Amazônia, Manaus, Brazil. Taught at the workshop leaded by Prof. Fernanda P. Werneck.

——— Adjunct Professor———

2015 **Vertebrate Zoology II –** Centro Universitário Una, Belo Horizonte, Brazil.
2015 **Vertebrate Zoology I –** Centro Universitário Una, Belo Horizonte, Brazil.
2015 **Scientific Methodology –** Centro Universitário Una, Belo Horizonte, Brazil.
2011 **Vertebrate Zoology I –** Centro Universitário Una, Belo Horizonte, Brazil.
2011 **Scientific Methodology –** Centro Universitário Una, Belo Horizonte, Brazil.

———Teaching Assistant———

2010 **Herpetologia Neotropical -** Universidade Federal de Viçosa, Viçosa, Brazil.
2008 **Natural Science Museum -** PUC-MG, Belo Horizonte, Brazil.
2007 **Vertebrate Zoology -** Centro Universitário Una, Belo Horizonte, Brazil.
2007 **Managing Wildlife -** Instituto Brasileiro do Meio Ambiente e dos recursos naturais renováveis (IBAMA), Brazil.

2006 **Invertebrate Zoology -** Centro Universitário Una, Belo Horizonte, Brazil.

Diversity, Equity, and Inclusion Initiatives

———Engagement———

2019 **International Documentary New Species, Serra da Mocidade, Brazil**
A Globo News documentary featuring the work of 30 researchers with diverse expertise, focusing on the discovery of new species.

2020 **Scientific Communication, Pandemic life project, Brazil**
Weekly discussions led by an expert in Herpetology, designed to engage and educate the general public about the field.

2020 **Magazine ICMBio, Brazil**
Pioneering fieldwork conducted in an indigenous territory received national media coverage as an unprecedented project.

2021 **Young women in science, Reno, NV, United States**
Participated as a speaker for the event organized by the professors of the Biology Department at the University of Nevada, Reno.

2024 **Engaging Girls in STEM, Los Angeles, CA, United States**
Participated as a speaker for the annual meeting organized by the Los Angeles County Office of Education.

———Publication———

D2. 2021. **Pirani RM**, Werneck FP. Diversidade de anfíbios e répteis nas florestas neotropicais úmidas. In: Junielson Soares da Silva; Renato Corrêia Lima; Simone Cardoso Soares; Jacqueline da Silva Batista; Kyara Martins Formiga (Org.) DNAlogando sobre conservação e biologia evolutiva na Amazônia. 1 ed. Ananindeua: Editora Itacaiúnas. PDF

D1. 2020. Diele-Viegas LM, Araújo OGS, Berneck BVM, Brasileiro CA, Brito ES, Brunes TO, Condez, TH, Costa LC, Dias-Silva, F, Fenker J, Freire EMX, Iop S, Lucas EM, Mongin-Aquino M, Monteiro JPC, Montesinos R, Morcatty TQ, Nascimento LB, Oswald CB, **Pirani RM**, Prette ACH, Ramalho Q, Souza E, Targino M, Thomé MTC, Vasconcelos BD, Vasconcellos MM, Werneck FP, Wiederhecker HC, Winck GR, Zina J, Lourenço SCL. When misinterpretation leads to sexism: perspectives on gender disparity in Brazilian Herpetology. *Herpetologia Brasileira*. PDF

Academic Services

Student mentorship: Graduate level - André Yves - INPA, Brazil (co-advisor; 2020-2023)
Undergraduate level - Adriano M. Souza - Centro Universitário Una (advisor; 2011)
Undergraduate level - Flávia C. Rezende - Centro Universitário Una (advisor; 2011)
Undergraduate level - João Brás - Centro Universitário Una (advisor; 2011)
Undergraduate level - Emanuel Silva - Centro Universitário Una (advisor; 2011)

Committees: Bruna Pontes, PhD thesis – UFPB, Brazil (2025)
Daniel Rivadeneira, PhD thesis – UFPR, Brazil (2024)
Amanda Varago, Master dissertation - UFMS, Brazil (2024)
Brenda Carvalho Silva, Master dissertation - UFMG, Brazil (2023)
Priscila Carvalho Santos, PhD thesis - UNESP, Brazil (2022)
Ibrahim K. R. Nehemy, Master dissertation - UFMS, Brazil (2022)
Beatriz Diogo Vasconcelos, Master dissertation - UFMS, Brazil (2021)
Lucas Bandeira, PhD thesis - INPA, Brazil (2021)
Mariana Pedrozo, Master dissertation - UFMS, Brazil (2020)
Nasrah M. C. Hamdan, Master dissertation - UFAM, Brazil (2019)
Patrik Ferreira Viana, PhD thesis - INPA, Brazil (2019)

Journal Article Reviewer (16 total): Landscape Ecology (1), Herpetology Notes (2), Checklist (2), PeerJ (2), Biological Journal of the Linnean Society (1), Frontiers in Ecology and Evolution (1), BMC Evolutionary Biology (1), The American Naturalist (1), Ecology and Evolution (2), Herpetologia Brasileira (2), Molecular Phylogenetics & Evolution (1).

Grant Reviewer: O Fundo Brasileiro para a Biodiversidade – FUNBIO, Brazil (10).

Professional Societies: Society for the Study of Evolution (SSE), Society of Systematic Biologists (SSB), Brazilian Society of Herpetology (SBH), Brazilian Society of Evolutionary Biology (SBBE), Genomics for Amphibian Conservation (GAC), Society for Molecular Biology & Evolution.

Organizer: Symposium at 2025 XI Brazilian Herpetology Congress, Manaus, Brazil
Symposium title: Advances and Perspectives of Genomics in Neotropical Herpetofauna

Volunteer Activities: 7th World Herpetology Conference, Vancouver, Canada. Participated in the organization of the conference on the University of British Columbia campus, 2012.

Skills

Fieldwork: 16 years of field inventories across Central America, recently in Panama, and South America, mostly in Brazil at various biomes, such as the Cerrado, Atlantic Forest, and Amazônia. Amphibian and reptile sampling, identification, morphological and ecological data, GIS, data collection and organization of field expeditions.

Leadership/Training: I leaded all my monthly master degree fieldwork at the Estadual Forest Uaimií, Brazil (2009-2011), planning and collecting data; the fieldwork at the Mount Roraima National Park (which is also the Indigenous Land Raposa Serra do Sol), Brazil (Dec - 2019); a group of ten graduate students through three months of fieldwork at the Smithsonian Tropical Research Institute (STRI, Panama - 2022), collecting, processing, and executing different thermophysiology experiments; I have led a group of six graduate students to plan the IX Workshop of Genetic, Conservation and Evolutionary Biology at the Instituto Nacional de Pesquisas da Amazônia (INPA), Manaus, Brazil (Aug – 2019); CIMER/NRMN Training in Effective Research Mentorship for Postdocs and Future Faculty at the University of California Los Angeles (UCLA) (Fev - 2024); CEILS Teaching for STEM Classrooms at UCLA (Nov - 2024).

Scientific Collection Contributions: During fieldwork, specimen tissues were collected for DNA extraction. From my undergraduate studies onward, I performed scientific collections in the field, catalogued and identified specimens for collaborative projects. The specimens are now part of three herpetology collections at PUC Minas (Belo Horizonte, MG), Universidade Federal de Viçosa (Viçosa, MG) and Instituto Nacional de Pesquisas da Amazônia - INPA (Manaus, AM).

Molecular Lab Experience: During my PhD, I learned next generation sequencing methods (*e.g.*, ddRADseq, PCR, pippin prep, DNA clean up and others) at the Dr. Lacey Knowles' Lab (University of Michigan, USA), and I have prepared four Illumina libraries using the ddRADseq protocol. During my postdoctoral studies at the University of Nevada Reno, I also learned how to prepare and analyze pooled population sequencing (Pool-Seq) data and how to assemble an *Anolis* whole genome using three different techniques (Oxford Nanopore, 10X Genomics linked-reads and Dovetail Omni-C).

Software and Techniques: I am proficient in several bioinformatics programs for next generation sequence (STACKS, ipyRAD, and Pool-seq pipelines), in addition to phylogenetic and population genetics analyses (FASTSINCOAL2, Structure, BEAST, RaxML, SNAPP, R packages and others). As a Postdoctoral Fellow, I have used different bioinformatic resources to assemble and analyze *Anolis* genomic data (Python scripts, BWA, Samtools, Miniconda, BUSCO). I have also used these genomic data to conduct a genome-wide association study (GWAS) to reveal the genetic basis of important physiological and morphological traits. I attended to the Population Genomics with low-coverage Whole Genome Sequencing data course (Oct – 2024); the Assembly and Annotation of Genomes course (March – 2025), and the Use of Genomics for Conservation (Dec – 2025).

Contact Information

1 Prof. Michael Alfaro – Postdoctoral supervisor, University of California, Los Angeles, USA (michaelalfaro@g.ucla.edu)
2 Prof. Fernanda P. Werneck – PhD advisor, Instituto Nacional de Pesquisas da Amazônia (INPA), Manaus, AM, Brazil (fewerneck@gmail.com)
3 Prof. L. Lacey Knowles – PhD co-advisor, University of Michigan, Ann Arbor, MI, United States (knowlesl@umich.edu)
4 Prof. Renato N. Feio – Master advisor, Universidade Federal de Viçosa (UFV), Viçosa, MG, Brazil (rfeio@ufv.br)