

Giulia Magri Ribeiro

Academic CV - September 2025

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Northampton, MA 01063
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✉ giuliamagriribeiro@gmail.com
Brazilian/Portuguese, 31 years



Education

2009
2010

ETEC Lauro Gomes, *Computer technician*

2012
2015

BSc Biological Sciences, *Institute of Biosciences - University of São Paulo (hereafter IB-USP), São Paulo, Brazil*

2015
2017

Licentiate Biological Sciences, *IB-USP, São Paulo, Brazil*

2016
2018

MSc in Sciences, *IB-USP, São Paulo, Brazil*
Thesis defense on February 2019

2022
2023

Specialization in Bioinformatics, *Unileya, São Paulo, Brazil*

2019
2023

PhD Zoology, *IB-USP, São Paulo, Brazil*, Advisor: Dr. Daniel Lahr, Dr. Enrique Lara
Thesis defense on August 2023

Work Experience

2025

Postdoctoral Researcher in Smith College, *Currently working on bioinformatics and single-cell 'omics approaches to study adaptation and population genetics of protists. My current research includes next-generation sequencing, genomics, gene expression analysis and confocal microscopy. The goal of my research now is to characterize, life-cycle stages, cryptic species and population structure of protist lineages living in US bogs and fens environments.*

2023
2025

Postdoctoral Researcher in Bioinformatics, Lund University, *Post-doctoral in bioinformatics working with pathogenic bacteria and phenotypic switching. Description of molecular mechanisms of induction and regulation of phenotypic switching in Mycobacterium avium, by using next-generation sequencing approaches and host-pathogen interaction models. Main activities involve: Genome production and Assembly; Transcriptomic analyses by RNA sequencing analysis to compare the gene expression between different stages; Genomic and Methylation analyses focusing on epigenetic regulations, DNA rearrangements that characterize the different stages; HPC computing, Bash, Python and R; Participation and presentation at national and international conferences; Preparation of scientific articles and reports.*

2016
2023

Researcher, Universidade de São Paulo, *Exploration of the microbial diversity, through large-scale environmental DNA sequencing techniques (metabarcoding); Laboratory experiments with cell cultures and messenger RNA sequencing (transcriptomes); Evaluation of gene expression by next-generation sequencing and real-time PCR. Bioinformatical analysis of Big data using Python and R. Additionally, activities include participation and presentation at national and international conferences; Teaching and organization of courses; Participation in administrative activities of the university; Preparation of scientific articles and reports.*

2021
2022

Visiting scholar, Real Jardín Botánico, CSIC, Madrid, *Exploration of microbial diversity in eutrophic environments, through large-scale environmental DNA sequencing techniques (metabarcoding); Laboratory experiments with cell cultures and messenger RNA sequencing (transcriptomes). Bioinformatical analysis using Python and R. Preparation of scientific articles and reports.*

2017

Visiting scholar, Smith College, Massachussets, *Bioinformatics, processing and analysis of next-generation sequencing data, gene identification, phylogenetic analysis.*

2017

Laboratory Technician, *Isolation and cultivation of testate amoebae, DNA and RNA extraction and sample preparation for next-generation sequencing*

2012
2015

Intern, Universidade de São Paulo, *Isolation and cultivation of testate amoebae, DNA extraction, gene amplification, plasmid cloning and Sanger sequencing; Participation and presentation at national and international conferences; Preparation of articles and scientific reports.*

Publication List

Laschanzky et al., 2025 Laschanzky, K.; **Ribeiro, G.M.**; Sequeira, R.; Cancade, S.; Carlsson, F.; Lienard, J. (submitted). **Cell wall remodeling-dependent morphotype switch in Mycobacterium avium differentially regulates lung colonization and tissue persistence.** *Submitted to Nature Microbiology.*

Barzilay et al., 2024 Barzilay, D.; Alcino, J.P.; **Ribeiro, G.M.**; Sousa, A.L.; Lahr, D.J. (2024). **Re-evaluating evidence for giant genomes in amoebae.** *Genetics and Molecular Biology*, 47(Suppl 1), e20240092.

Porfirio-Sousa et al., 2024 Porfírio-Sousa, A.L; Tice, A.K; Morais, L.; **Ribeiro, G. M.**; Blandenier, Q.; Dumack, K; Eglit, Y; Fry, N.W; Gomes E Souza, M. B.; Henderson, T.C.; Kleitz-Singleton, F.; Singer D.; Brown, M.W.; Lahr, D.J.G (2024). **Amoebozoan testate amoebae illuminate the diversity of heterotrophs and the complexity of ecosystems throughout geological time.** *Proceedings of the National Academy of Sciences*

Ribeiro & Lahr, 2024 **Ribeiro, G.M.**; Lahr, D.J. (2024). **Survival in a Changing World: The role of transcriptomics and the urgent need for genomes to understand Arcellinida's adaptive capabilities.** *Acta Protozoologica*, 2024(Special Issue/Early View).

- Ribeiro et al., 2023** **Ribeiro, G. M.**; Useros, F.; Dumack K.; González-Miguéns R.; Siemensma F.; Porfírio-Sousa, A.F; Soler-Zamora, C.; Alcino J.P.B.; Lahr, D. J. G, Lara E. (2023). **Expansion of the cytochrome C oxidase subunit I database and description of four new lobose testate amoebae species (Amoebozoa; Arcellinida)** *European Journal of Protistology*
- Soares et al., 2023** Soares, K. D. A.; Brandão, I; Pereira, J; Gomyde, E; Pessoa-Silva, M; H.; **Ribeiro, G. M.**; Zanini, F; Grossel, L.A (2023). **A decade of Zoology Summer Course: impressions and impacts of the first university extension course on Zoology in Brazil** *Biota Neotropica*
- Ribeiro et al., 2022** **Ribeiro, G. M. and Lahr, D. J. G.**; (2022) **A comparative study indicates vertical inheritance and horizontal gene transfer of arsenic resistance-related genes in eukaryotes.** *Molecular Phylogenetics and Evolution*.
- Gonzalez-Miguéns et al., 2022** González-Miguéns, R.; Todorov, M.; Blandenier, Q.; Duckert, C.; Porfírio-Sousa, A. L.; **Ribeiro, G. M.**; Ramos, D.; Lahr, D. J.G.; Buckley, D.; Lara, E. (2022). **Deconstructing Diffugia: The tangled evolution of lobose testate amoebae shells (Amoebozoa: Arcellinida) illustrates the importance of convergent evolution in protist phylogeny** *Molecular Phylogenetics and Evolution*
- Teng et al., 2021** Teng Y.; Porfírio-Sousa A.L.; **Ribeiro, G. M.**; Arend M.C.; Meirelles L., Chen E.S., Rosa D.S., Han S.W. (2021). **Analyses of the pericyte transcriptome in ischemic skeletal muscles** *Stem Cell & Research Therapy*
- Hofstatter et al., 2020** Hofstatter P. G; **Ribeiro, G. M.**; Porfírio-Sousa, A. L.; Lahr, D. J. G. (2020) **The Sexual Ancestor of all Eukaryotes: A Defense of the “Meiosis Toolkit” A Rigorous Survey Supports the Obligate Link between Meiosis Machinery and Sexual Recombination.** *BioEssays*.
- Ribeiro et al., 2019** **Ribeiro, G. M.**; Porfírio-Sousa, A. L.; Maurer-Alcalá, X. X.; Katz, L. A; Lahr, D. J. G. (2019) **De novo sequencing, assembly and annotation of the transcriptome of the free-living testate amoeba Arcella intermedia** *Journal of Eukaryotic Microbiology*.
- Lahr et al., 2019** Lahr, D. J. G.; Kosakyan, A.; Lara, H.; Mitchell, E. A. D.; Morais, L.; Porfírio-Sousa, A. L.; **Ribeiro, G. M.**; Tice, A. K.; Kang, S.; Brown, M. W. (2019) **Phylogenomics and ancestral morphological reconstruction of testate amoebae demonstrate high diversity of microbial eukaryotes in the Neoproterozoic.** *Current Biology*.
- Ribeiro et al., 2019** **Ribeiro, G. M.**; Prado, P.; Coutinho, R. ; Rillo, M.; Junior, S.; Porfírio-Sousa, A. L.; Lahr, D. J. G. (2019) **Growth rate modulation enables coexistence in a competitive exclusion scenario between microbial eukaryotes.** *Acta Protozoologica*.
- Porfírio-Sousa and Ribeiro et al., 2017** Porfírio-Sousa, A. L.; **Ribeiro, G. M.** and Lahr, D. J. G. (2017). **Morphometric and genetic analysis of Arcella intermedia and Arcella intermedia laevis (Amoebozoa, Arcellinida) illuminate phenotypic plasticity in microbial eukaryotes.** *European journal of Protistology*

Lahr et al., 2017 Lahr, D. J. G.; Lara, H.; Hofstatter, P. G.; **Ribeiro, G. M.**; Porfírio-Sousa, A. L.; and Junior, S. P. (2017). **Meeting Report: 8th International Symposium on Testate Amoebae, Ilhabela, São Paulo, Brazil, 12–14 September 2016.** *Journal of Eukaryotic Microbiology*

Feres et al., 2016 Feres, J. C.; Porfírio-Sousa, A. L.; **Ribeiro, G. M.**; Rocha, G. M.; Sterza, J. M.; Souza, M. B. G.; Soares, C. E. A.; and Lahr, D. J. G. (2016). **Morphological and morphometric description of a novel shelled amoeba *Arcella gandalfi* sp. nov.(Amoebozoa: Arcellinida) from Brazilian continental waters.** *Acta Protozoologica*

Research grants

2023

Carl Tryggers Stiftelse fellowship, *Level: Postdoctoral fellowship*, Regulatory network of virulence switch in pathogenic bacteria

2020
2023

FAPESP fellowship, *Level: PhD fellowship*, Evaluation of the impact of environmental conditions on the taxonomic and functional diversity of testate amoebae

2021
2022

FAPESP fellowship, *Level: Visiting scholar (BEPE) fellowship*, Real Jardín Botánico, CSIC, Madrid., Evaluation of the importance of fermentative metabolism in eutrophic lakes.

Complementary Formation

2023

R and Python developer, 160h, Xpe

2023

Data Scientist, 160h, Xpe

2023

Computer Programmer, 160h, Xpe

2023

Bioinformatics for biologists: an introduction to Linux, BASH scripting, and R, 20h, Welcome connecting science

2021

Course of Introduction to Science computing using Python, *University of Sao Paulo*, 80h, Coursera

2020

Biology Meets Programming: Bioinformatics for Beginners., *University of California San Diego, UC SAN DIEGO*, 20h, Coursera

2019

Basic principles of genome assembly, annotation & phylogenomics, *University of Sao Paulo*, 4h, Coursera

Teaching/Outreach activities

2023

Advisor Master Project, *Lund University*

2017
2021

Teaching/Organization Zoology Summer Course, *University of São Paulo*

2012
2015

Teaching Outreach Project - Estação Biologia, *University of São Paulo*

Language skills

Portuguese native

English C1

Spanish B2

Academic Quantitative Indicators

Peer-reviewed Journal articles: 15

Google Scholar Citations: 203, H=8

Links

ORCID <https://orcid.org/0000-0003-3366-3735>

Google Scholar https://scholar.google.com.br/citations?user=3GnK__QAAAAJ&hl=pt-BR

Lattes <http://lattes.cnpq.br/5111122800344440>

LinkedIn <https://www.linkedin.com/in/giulia-magri-ribeiro-aa522390/>

Website: <https://giuliamagriribeiro.wordpress.com/>