

Rodrigo Milan Calegari



Webpage: <https://milancalegari.github.io/>

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Education:

- Graduation in Biological Sciences - São Paulo State University (UNESP), Bauru, São Paulo. **(2017 - present)**.

Experience:

- Undergraduate researcher financed by FAPESP in LAGENPE, UNESP Bauru - Analysis of Different Populations of *Astyanax lacustris* Satelitome. **(2020 - present)**.
- Undergraduate researcher in bioinformatics and genomics in LAGENPE, UNESP Bauru. **(2019 - present)**.

Skills and Qualifications:

- Languages:
 - Portuguese - native.
 - English - advanced.
 - Spanish - basic.
- Coding and Technology:
 - Proficiency in **Python**.
 - Proficiency with **Linux**/UNIX environment.
 - Acquainted with **BASH**, **R**, **C++**, **SQL**, **HTML** and **CSS**.
 - Acquainted with **HPC**.
- Academic:
 - Experience in **Genomics**, **Cytogenomics** and **Bioinformatics**.
 - Experience in **Repetitive Sequences Analysis** and **NGS Analysis**.
 - Experience in **Mitochondrial Genomes Assembly**.

Courses, Workshops or Events:

- **Finding Hidden Messages in DNA (Bioinformatics I)**. University of California San Diego (Coursera). **(2020 - 2020)**
- **Algorithms for DNA Sequencing**. Johns Hopkins University (Coursera). **(2020 - 2020)**
- **Command Line Tools for Genomic Data Science**. Johns Hopkins University (Coursera). **(2020 - 2020)**
- **Introduction to Git and Github**. Google Inc. (Coursera) **(2020 - 2020)**.
- **Algorithmic Toolbox**. University of California San Diego (Coursera). **(2020 - 2020)**.
- **Introdução a Ciências da Computação com Python Parte 1**. USP (Coursera). **(2020 -**

2020).

- **Introdução a Ciências da Computação com Python Parte 2.** USP (Coursera). (2020 - 2020).
- **Introduction to Bioinformatics for Biosystematics.** Research School in Biosystematics. (2021 - 2021)
- **K-mer Workshop.** Research School in Biosystematics. (2021 - 2021)
- **Introduction to Data Visualization with Seaborn.** Datacamp. (2021 - 2021).
- **Machine Learning for Everyone.** Datacamp. (2021 - 2021).
- **Final Round Bioinformatics Contest 2021.** (2021 - 2021).
- **Supervised Learning with scikit-learning.** Datacamp. (2021 - present)

Publications:

- **Calegari, R.M., et al., 2019. The Complete mitochondrial genome sequences of five Otophysi species (Vertebrata, Teleostei). Mitochondrial DNA Part B, 4(2), pp.4198-1499.**
- **Dos Santos¹, R.Z., Calegari¹, R.M., et al. , 2021. A long-term conserved satellite DNA that remains unexpanded in several genomes of Characiformes fish is actively transcribed. Genome Biology and Evolution, 13(2), p.evab002.**
- **Stornioli, J.H.F., Goes, C.A.G., Calegari, R.M., et al., 2021. The B Chromosomes of Prochilodus lineatus (Teleostei, Characiformes) Are Highly Enriched in Satellite DNAs. Cells, 10(6), p.1527.**

Projects:

- **Chromosome-Count:** A script to count the number of chromosomes in an image (<https://github.com/MilanCalegari/Chromosome-Count>).
- **DNAToolkit:** A web platform with basic functions to analyze biological sequences . (<https://dnatoolkit.herokuapp.com/>).
- **PokemonPalette:** A python package that return a color palette based on a pokemon name (<https://github.com/MilanCalegari/pokemonPalette>).
- **Rosalind Solutions:** A github folder with my solutions in C++ and Python for bioinformatics problems in Rosalind (<https://github.com/MilanCalegari/RosalindSolutions>)

¹The authors have the same contribution