

JEFERYD YEPES-GARCÍA

Bioinformatician and Data Scientist

🔗 <https://jeferydyepes.com/> @ jeferyd.yepesgarcia@unifr.ch

📍 Fribourg, Switzerland

linkedin.com/in/jeferyd-yepes



SUMMARY

Bioinformatics researcher and PhD candidate specializing in metagenomics, microbial ecology, and reproducible computational workflows. My work is focused on lignocellulosic biomass degradation and sustainable agriculture, integrating advanced genomic analyses to address environmental challenges and promote circular bio-economy solutions.

EDUCATION

Doctor of Philosophy - PhDc, Bioinformatics

Université de Fribourg - Universität Freiburg 🕒 In progress

Master of Sciences in Engineering - MSc

University of Antioquia 🕒 12/2020

Specialist in Lab. Management (ISO/IEC 17025)

Servicio Nacional de Aprendizaje (SENA) 🕒 12/2020

Biotechnologist

I.U Colegio Mayor de Antioquia 🕒 06/2015

EXPERIENCE

Bioinformatician

SIB Swiss Institute of Bioinformatics 🕒 09/2022 📍 Fribourg

Laboratory Analyst

Iluma Alliance 🕒 01 - 08/2022 📍 Medellin

PUBLICATIONS

2Pipe starts with a question: matching you with the correct pipeline for MAG reconstruction

mSystems

📅 01/2026

🔗 DOI: <https://doi.org/10.1128/msystems.00844-25>

Genome-Resolved Metagenomics of Rice Straw Degradation Experiments in Colombian Fields

Scientific Data

📅 11/2025

🔗 DOI: <https://doi.org/10.1038/s41597-025-06113-2>

LANGUAGES

Spanish Native ●●●●●

English Proficient ●●●●●

French Intermediate ●●●●●

TRAINER

 Introduction to Metagenomics Data Analysis of Microbial Communities [🔗](#)

 Nextflow in Action: Build Smarter, Faster, Reproducible Pipelines [🔗](#)

 Interactive Visualisation with Python [🔗](#)

TOOLS



AWARDS

 SIB Remarkable Output 2024

 The Best poster in Bioinformatics (LS² Annual Meeting 2025)

 Swiss Excellence Scholarship holder (FCS)

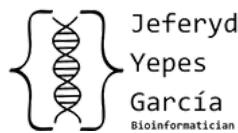
VOLUNTEERING

 Student Representative FGLM

 Nextflow Ambassador

 Student Representative CUSO StarOmics





Jeferyd
Yepes
García
Bioinformatician



nextflow
AMBASSADOR

Referees:

Dr. Laurent Falquet, Group Leader

University of Fribourg and Swiss Institute of Bioinformatics
Email: laurent.falquet@unifr.ch

Prof. Pedro Romero, Group Leader

Department of Oncology, University of Lausanne
Email: pedro.romero@unil.ch

Full list of publications:

Yepes-García, J. & Falquet, L. (2026). 2Pipe: It Starts with a Question. Matching You with the Correct Pipeline for MAG Reconstruction. *mSystems*, 0:e00844-25. <https://doi.org/10.1128/msystems.00844-25>

Yepes-García, J. & Falquet, L. (2025). TaxoFlow: The Tutorial. An Educational Nextflow Pipeline for Metagenomics Taxonomic Profiling. *Preprints*. <https://doi.org/10.20944/preprints202512.1989.v1>

Yepes-García, J., Novoa-Montenegro, N., Otero-Jiménez, V. et al. (2025). Genome-Resolved Metagenomics of Rice Straw Degradation Experiments in Colombian Fields. *Scientific Data*, 12(1823). <https://doi.org/10.1038/s41597-025-06113-2>

Yepes-García, J. & Falquet, L. (2024). Metagenome quality metrics and taxonomical annotation visualization through the integration of MAGFlow and BiLGAG. *F1000Research*, 13:640. <https://doi.org/10.12688/f1000research.152290.2>

Falquet, L., Yepes-García, J., Gonzalez, I. M., & Hernandez, E. B. (2024). Report on the Swiss-Colombian workshop 2024: “Metagenomics data analysis of mixed microbial communities.” *EMBnet.journal*, 30(0). <https://doi.org/10.14806/ej.30.0.1063>

Yepes-García, J., Caicedo-Montoya, C., Pinilla, L., Toro, L. F., & Ríos-Estepa, R. (2020). Morphological differentiation of *Streptomyces clavuligerus* exposed to diverse environmental conditions and its relationship with clavulanic acid biosynthesis. *Processes*, 8(9). <https://doi.org/10.3390/pr8091038>

Caicedo-Montoya, C., Pinilla, L., Toro, L. F., Yepes-García, J., & Ríos-Estepa, R. (2019). Comparative analysis of strategies for de novo transcriptome assembly in prokaryotes: *Streptomyces clavuligerus* as a case study. *High-Throughput*, 8(4). <https://doi.org/10.3390/ht8040020>



Swiss Institute of
Bioinformatics



UNIVERSITÉ DE FRIBOURG
UNIVERSITÄT FREIBURG