Raïssa SILVA

Short C.V.

I am currently a postdoctoral researcher in AI & biomedical data at PhyMedExp (Physiology and Experimental Medicine Laboratory), where I work on the analysis of the microbiota of patients with rheumatoid arthritis using multi-omics data. My research integrates machine learning and computational biology to explore complex biological systems and identify clinically relevant molecular signatures.

I hold a PhD in Biologie Santé from the Université de Montpellier, where I developed my thesis on Acute Myeloid Leukemia and RNA-seq data. My doctoral work, conducted at the Institute of Regenerative Medicine & Biotherapy, focused on exploring human transcriptomes using k-mers and machine learning methods to identify novel biomarkers in cancer cohorts.

Prior to my PhD, I earned a bachelor's and a master's degree in Computer Science from the Federal University of Pará (UFPA). My professional experience includes working at the Vale Institute of Technology, where I specialized in genome, metagenome, and metabarcoding analyses, applying machine learning and statistical approaches to biological data. I also contributed to the Laboratory of Bioinformatics and High-Performance Computing at UFPA, supporting the supervision of undergraduate students and conducting research on energetic metabolisms.

My expertise spans multiple domains, including Artificial Intelligence, Machine Learning, Computer Science, Bioinformatics, Genomics, Metagenomics, Metabarcoding, Transcriptomics, Metaproteomics, Microbiota, and Oncology.