

Julia Apolonio de Amorim

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EDUCATION

UFRN

MASTERS IN BIOINFORMATICS

Aug 2023 - now

Repriorization of depression markers using multi-trait analysis

BSC IN BIOMEDICAL ENGINEERING

Jul 2019 - May 2021

Automatization of 3D-printed splint's manufacturing process

BSC IN SCIENCE AND TECHNOLOGY

Feb 2015 - Jun 2019

Neuroanatomical abnormalities in the Autism Spectrum Disorder: a literature review

LINKS

LinkedIn: [juliaapolonio](#)

GitHub: [juliaapolonio](#)

SKILLS

PROGRAMMING

Python • R • Shell/Bash

Nextflow • Docker

Git • Conda

LANGUAGES

• Portuguese (Native)

• English (Fluent)

ACCOMPLISHMENTS

• **Deposited patent:** Active orthosis for movimentation of upper limb and fingers - INPI, Brazil, 2020.

• **Published paper:** Adaptive Algorithms as Control Strategies of Smart Upper Limb Orthosis: A Protocol for a Systematic Scoping Review.

RESUME

Bioinformatician with experience in data analysis and healthcare technology with a record of collaborations/consultation in scientific projects. Currently, developing my skills in genomics.

EXPERIENCE

BIOME - UFRN | MASTER STUDENT

Aug 2023 / Now

Projects in the area of genomics with focus in neuropsychiatric disorders.

- Designed a pipeline for the automatization of Mendelian Randomization analysis using QTLs which reduces the computational effort and saves time for the analysis.
- Discovered variants not previously reported as significantly associated with depression or depressive symptoms in the literature.
- Aim to find druggable genes that could serve as a potential treatment for Major Depressive Disorder.

CMR SURGICAL | GRADUATE SYSTEM VERIFICATION TEST ENGINEER

Jun 2022 / Jun 2023

Responsible for testing the surgical robot Versius™ on a system level, verifying that it is compliant with the design requirements.

- Improved traceability of test rigs and the methodology on test protocols and scripts, saving time and effort of the team on test runs and showing compliance with the requirements of ISO 13485.
- Ran test and design verification protocols on the latest releases of the robot, raising system-level errors that would appear only on the field.
- Liaise with members of design control and research and development groups to ensure that the test procedure is correctly verifying the design requirements.
- Wrote and reviewed technical documents such as protocols, reports, and memorandums to support regulatory approval of new product releases.

LAIS/HUOL | UNDERGRADUATE RESEARCH

May 2018 / May 2021

Project in the area of Assistive Technology, involving products for the care of Amyotrophic Lateral Sclerosis patients.

- Designed software for the automation of a 3D-printed personalized hand splint, which reduced material cost by up to 97% and made the process independent of a drawing technician.
- Collaborated with a scoping review conducting searches and reading patents and articles for a published paper.
- Design, manufacture, and assembly of complex electromechanical systems.