



## CONTACT

+55 (11) 95478 5763

jvitorfernandez@gmail.com

[jvmf.github.io](https://jvmf.github.io)

Bela Vista, São Paulo - SP

## EDUCATION

**Postgraduate specialization in Data Science and A.I. applied to Healthcare**  
Data Science Academy  
Nov, 2024 – Mai, 2025

**Radiation Therapy Medical Physics Residency**  
Hospital Sírio-Libanês  
Mar, 2022 – Mar, 2024

**B.Sc Medical Physics**  
Campinas State University  
Mar, 2013 – Dec, 2019

## ADDITIONAL EXPERIENCE

**2025** – Healthcare Lean Six Sigma Yellow Belt Certification – FM2S

**2024** – SBRT y SRS – Rayos Contra el Cancer - RCC

**2024** – II Central Nervous System Radiosurgery Course – Real Hospital Português

**2023** – Speaker at LDR Prostate Brachytherapy Mini-Course – HSL

**2021** – XXth Course on State-of-the-Art Radiotherapy and Quality Control – HSL

**2021** – E-Learning: Safety and Quality in Radiotherapy – IAEA

**2020** – 2nd Internacional Radiobiology Course – HA Barretos

**2019** – Basic Radiotherapy Course – HSL

## LANGUAGES

Portuguese – Native  
English – B1  
Spanish – B1

# JOÃO VITOR M. FERNANDEZ

Age: 34, Radiotherapy Medical Physicist  
Radiotherapy Specialist (Hospital Sírio-Libanês / CNEN, Brazil – RA0600)  
Radiation Protection Supervisor – (*Certification in progress*)

## WORK EXPERIENCE

**2024 – Present – Medical Physicist (Mid-level) – HapVida Notrelabs**  
Full-time medical physicist responsible for external beam radiotherapy treatment planning using 3D techniques (XiO / Monaco) and VMAT (Monaco), clinical form preparation, patient-specific QA (PSQA) using MatriXX, mechanical QA (AAPM TG-142), absolute dosimetry following IAEA TRS-398, performance indicator monitoring, and staff training.

**2023 – Extracurricular Internship – Hospital Vila Nova Star**

Observational visit to the radiotherapy department to follow treatments using Tomotherapy (TBI and craniospinal irradiation) and Gamma Knife, including liver SBRT with respiratory tracking, as well as equipment quality assurance practices.

**2022 – 2024 – Medical Physics Residency – Hospital Sírio Libanês**

Medical physics residency in radiotherapy. Activities included treatment planning and optimization for 3D-CRT, IMRT, VMAT, SBRT, and SRS, dosimetry practice following IAEA TRS-398, PSQA using EPID, ionization chambers, and radiochromic films, brachytherapy (prostate LDR and HDR gynecological, interstitial, and intraoperative), IGRT with 2D kV/MV imaging and Cone Beam CT, intrafraction motion monitoring technologies such as ExacTrac, OSMS, and Calypso, and respiratory motion management techniques, including 4D-CT and gating.

**2019 – Mandatory Clinical Internship – Hospital de Clínicas da UNICAMP**

Supervised mandatory internship in partnership with the State University of Campinas, covering Radiotherapy, Diagnostic Radiology, and Nuclear Medicine, totaling 360 hours of hands-on clinical experience.

**2019 – Mandatory Clinical Internship – CAISM: Hospital da Mulher J. A. Pinotti**

Supervised mandatory internship focused on Radiotherapy, including 2D and 3D breast treatment planning using the XiO TPS.

**2019 – Observational Internship – Hospital de Amor de Barretos**

160-hour observational internship in the radiotherapy department, following all stages of the radiotherapy treatment process, from CT simulation and external beam treatment planning (3D-CRT and IMRT) to LDR brachytherapy and treatment delivery.

## TECHNICAL SKILLS

- Experience with the MyQA Platform - IBA Dosimetry.
- Programming in Python, R and C# (Eclipse Scripting API);
- Experience with Varian (ARIA) and Elekta (Mosaik) R&V Systems;
- Experience with Varian (Novalis and TrueBeam) and Elekta (Synergy) Linear Accelerators;
- Experience with Varian TPS (Eclipse) and Elekta TPS (XiO / Monaco);
- Experience with HDR brachytherapy (gynecological, interstitial, and intraoperative) and LDR (Ir-192)
- Experience with direct 3D printing bôlus for radiotherapy.