



**Gabriel Guterres Marmitt**

My name is Gabriel Guterres Marmitt. I studied Physics at Universidade Federal do Rio Grande do Sul (Porto Alegre, Brasil) and then completed a Master's degree in Atomic and Molecular Physics. Afterwards, I pursued a PhD in the same institution on the study of nano-electronics by electron and ion backscattering techniques. The simulation of particle interactions in Ion Beam Analysis was the focus of my PhD work, which resulted in an online analysis and Monte Carlo based simulation software.

From the end of 2017 I started working at the UMCG as a researcher with a focus on developing a platform with automated Monte Carlo dose calculations for quality assurance of proton therapy treatments.

In 2020 I joined the Proton Therapy Center Groningen as a Computational Medical Physicist, where I have had a close interaction with different areas of radiotherapy. My main focus is to further develop an automated QA platform to build a Clinical Control System at the UMCG.