

PhD Program in TECHNOLOGY FOR HEALTH



# [DEEP LEARNING APPLICATIONS IN MEDICAL IMAGE ANALYSIS]

PhD Candidate: Fatehia Bushara Garma Bushara

Email: f.bushara@unibs.it

XXXV cycle

Tutors: Proff. Nicola Francesco Lopomo, Alberto Signoroni



CNN)

# Background

I received my bachelor degree in Biomedical Engineering from Sudan University of Science and Technology . My master's degree also in Biomedical engineering. My research interests span the areas of Signal and Image Analysis, Machine Learning, Computational Biology and Medical Instrumentation. I am especially interested in developing methods for Image Analysis.

### Objectives

The main objective of my research is to contribute to the developing of computational methods and algorithms to analyze and quantify biomedical image.

# **Methodologies**

Deep Learning (DL) consider a more accurate and faster image interpretation through Artificial Intelegent (AI)-assisted medical diagnosis. Step 1 Step 2 Step 3 Deep Learning Medical Image (Machine Learning with Image Input e.g.

# Expected Results and Impact

Develop algorithms based on Deep Learning for efficiency diagnosis of diseases from medical images.