

ABOUT ME

I am a passionate student of particle physics with a strong interest in both theoretical and experimental advancements in the field. I am excited about the opportunity to contribute to innovative research projects that combine scientific analysis with cutting-edge technologies. My determination, intellectual curiosity, and eagerness to learn drive me to seek a thesis that presents a stimulating challenge and allows me to develop valuable skills for my academic and professional future.

LANGUAGE

Italian English (B2) French (B1)

C O N T A C T



pio.varrella@studio.unibo.it pio.varrella2@unibo.it pio.varrella@tu-dortmund.de pio_francesco.varrella@etu.uca.fr

L

+39 3926588029

SKILLS

- C++, Python, ROOT, LaTeX, Arduino
- Machine Learning and Neural Networl methods
- Knowledges of ARGES, EFT-Fitter, Wilson and Flavio computing tools
- Knowledges of Computing Infrastructures

PIO FRANCESCO VARRELLA

MSC IN PARTICLE PHYSICS DATA SCIENTIST

EDUCATION

Master Degree on Advanced Methods in Particle Physics (2023-now):

an International Master degree (https://imapp.eu/) of the Dortmund University (DE) jointly with the University of Bologna (IT) and the University of Clermont-Ferrand (FR). A program recognized by the European Union with the Erasmus Mundus status and providing cutting-edge knowledges in the field of particle physics, with a focus on machine learning, detectors and statistical techniques.

Bachelor Degree on Physics (2020-2023):

graduated at the University of Bologna, Alma Mater Studiorum, wih 110/110 and honours and recognized as an Excellence within the National Plane.

Scientific High School (2015-2020):

scientific high school diploma at the Liceo Scientifico "G. Rummo", in Benevento (IT), with adjoint IGCSE certifications.

PROJECTS

• Didactic Tutor (September 2024-September 2025): Academic didactic tutor for the Master Degree on Advanced Methods in Particle Physics at Bologna University. Link: https://www.unibo.it/sitoweb/pio.varrella2/en

• BCD Spring School (March 2024):

Spring school at the Institut d'Études Scientifiques de Cargèse - Corse University (Corsica) about the faith and the future of the Standard Model and the current theorical and experimental particle physics.

• Data Science diploma (September 2023-February 2024): Universitary diploma at Clermont-Ferrand University.

• Bachelor Thesis (2023):

Thesis with the Bologna LHCb group about the search for CP violation in specific decay channels using the Δ Acp technique and Boost Decision Trees methods.

- Physics Summer School (September 2018): Physics summer school at the Salerno University, Salerno (IT).
- Physics Advanced Training Courses (2018-2019): Training preparatory courses for the regional and national Physics Olympiads