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Education

Summer School on Methods of Effective Field Theory and Lattice Field Theory

BAD HONNEF PHYSICS SCHOOL, GERMANY

July. 2021

training at the frontier of QCD, EFTs and lattice field theory focusing on relevant physical problems.

ESCAPE Summer School 2021

LABORATOIRE D'ANNECY DE PHYSIQUE DES PARTICULES - IN2P3, FRANCE

Jun 2021

Data Science for Astronomers, Astroparticle and Particle Physicists

Summer School on Particle Physics

THE ABDUS SALAM INTERNATIONAL CENTRE FOR THEORETICAL PHYSICS, ITALY

May. 2021- Jun 2021

Got a detailed overview of particle physics & astrophysics

M.Sc. in High energy physics and computational physics

CADI AYYAD UNIVERSITY Oct. 2018 - Dec. 2020

- Rank: 2nd in the promotion
- Depth knowledge in high energy physics and subatomic physics
- learned to resolve physics problems by computing

Computational physics projects

SIMULATION OF A MACH ZEHNDER INTERFEROMETER AS A CORONAGRAPH

• build a s imulation of a Mach Zehnder interferometer as a coronagraph to use it in Oukaimeden observatory in Marrakech

Analysis of Higgs boson in the four-lepton final states

• Reproduce the analysis of the discovery of the Higgs boson using the 2011 and 2012 datasets, in the four-lepton final states

EXTRACTING SIGNALS OF HIGGS BOSON USING NEW MACHINE LEARNING TECHNIQUES

• Explore the potential of advanced machine learning methods (SVM, Gradient boosting, random forest) to improve the discovery significance of the ATLAS experiment

Skills

Programming Languages: Experienced: Python | C++ Familiar: Javascript | Fortran | Java | Verilog

Frameworks & Libraries: ROOT | TMVA | Pythia | Jupyter | Matplotplib | Numpy | Pandas | Scikit-learn | PyTorch | Tensorflow

Technologies: Git | Linux (Debian) | Monte Carlo Simulation | Lagrange | Linux (Debian) |

Soft Skills: Team working | Problem solving

Languages: *English*: Fluent | *Frensh*: Fluent | *Arabic*: Native

Certifications

2021 Deep Learning Specialization, Deeplearning.ai Coursera

2020 **Machine Learning foundations,** Washington University Coursera

References

${\bf Abderrahim\ Adahchour},$

- Senior university teacher
- · My master teacher
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- Mv master teacher
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