



Ismail EZZAKI

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"be the change you want to see in the world"

Education

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 & Standard Model phenomenology

M.Sc. in High energy physics, astronomy 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

B.Sc. in Physics

IBN ZOHR UNIVERSITY

Oct. 2017 - Aug. 2018

- got fundamental knowledge in fundamental physics

Computational physics projects

ATLAS EVENTS SIMULATION USING GAN NEURAL NETWORK

- Train a GAN neural networks to produce $Z \rightarrow \mu\mu$ events in conditions that replicate the proton-proton collisions at Large Hadron Collider and the ATLAS detector

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

PARTICLE INFO PYTHON LIBRARY

- provide a simple interface in python to the Particle Data Group (PDG) with extended particle information.

HIGGS BOSON & MACHINE LEARNING

- Explore the potential of advanced machine learning methods to improve the discovery significance of the ATLAS experiment

Skills

DevOps ROOT, TMVA, Pythia, Athena, Tensorflow, Sci-kit learn

Programming C++,Python, JavaScript

Technologies Git, Linux (Debian), Monte Carlo Simulation, \LaTeX

Soft Skills Team working, Problem solving

Certifications

2021 **Deep Learning Specialization**, (not completed) , Deeplearning.ai Coursera

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

Languages

English level C1

Frensh level B2

Arabic native speaker

Extracurricular Activity

Voluntary work

MOHAMMED 6 DISABILITY ASSOCIATION

Mar. 2018 - Jun. 2018

- Volunteered for two months in Mohammed *IV* disability association

Member of Enactus club

ENACTUS CLUB OUARZAZATE

Sep. 2016 - Jun. 2018

- Successfully spearheaded a team of 50 students to conduct entrepreneurial endeavors from inception to completion
- Developed a project of filter water to a rural area

Extra Interests

Literature, photography

References

Abderrahim Adahchour,

- Senior university teacher
- My master teacher
- adahchour@uca.ac.ma ✉

SEFYANI LAKRIZI Fouad,

- Senior university teacher
- My master teacher
- sefyani@uca.ma ✉