Ismail **EZZAKI**

MASTER STUDENT · FREELANCER PROGRAMMER

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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 & 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

B.Sc. in Physics

IBN ZOHR UNIVERSITY   *Oct. 2014 - Aug. 2018*

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 | Matplotlib | Numpy | Pandas | Scikit-learn | PyTorch | Tensorflow

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

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

Mohamed El kacimi,
- Senior university teacher
- member in ATLAS collaboration
- elkacimi@uca.ac.ma ✉

Mohamed Chabab,
- Senior university teacher
- My master thesis supervisor
- mchabab@uca.ac.ma ✉