



# Miss MOUTAOIKIL Asmae

## PhD Student

📍 France

🕒 27 year

🚗 Driving licence

☎️ +33689142094

✉️ asmaemoutaouikil@gmail.com



### Education

2013

2013/2015

2015/ 2018

High School diploma, experimental sciences, with high honors  
Bab Sahara High school  
Guelmim | Morocco

two-year of intensive program preparing for the national competitive exam for entry to engineering schools  
CPGE Bab Sahara Physics and science of engineer  
Guelmim | Morocco

Diplôme d'ingénieur d'état (master degree in engineering) with high honors  
National school of applied sciences  
Agadir | Morocco



### Work experiences Internships

2022 ▪ Doctoral studies at **Institute of mechanics and engineering** | Bordeaux, France  
Experimental and numerical methods for the thermal evaluation of adaptive building elements



2022 01 March 2020 - 15 October 2022 | **Data scientist / Research activity in Physics and Mathematics laboratory**:  
▪ Forecasting of PV power using Sky images  
Classification of sky images with CNN(Tenerife Island(Spain) data):

2020 ▪ Data preprocessing: Data augmentation, normalization.  
▪ Define model architecture .  
▪ Fit the model with training data.  
▪ Get predictions.



Tools: Python , OpenCV, Tensorflow, Keras  
Platform :Google colab research

Multistep forecasting of electricity demand using LSTM encoder-decoder(Tenerife Island(Spain) data):

▪ Data preprocessing: remove outliers, normalization.  
▪ Define model architecture .  
▪ Fit the model with training data.  
▪ Get predictions and compare the results with persistence model.

Tools: Python , OpenCV, Tensorflow, Keras  
Platform :Google colab research

2018 15 March – 15 August | **OVL: Orléans Val de Loire Technopole** |Orléans, France  
Applied research internship



Graduation project : Deep learning : methods and Tools:

▪ Implemented ANN to regression and classification problems using Rstudio (Supervised learning).  
▪ A software tool (in C++) demonstrator type to use the different scripts and visualize performance directly.  
▪ Implemented Convolutional neural network on Matlab for object detection,  
▪ Application of facial recognition.

Tools: Logiciel R, C++,Python , OpenCV ,Matlab  
Platform : Deep Cognition

2017 03 July – 03 August | **SOGEC: société d'études en génie civil** |Agadir Morocco

Technical internship: Electrical dimensioning of a building R + 3

▪ Elaborate the power budget: High current, Low current.  
▪ Study of lighting and propose an optimal type of lighting.  
▪ Develop the price schedule of the project.

Tools : DIALUX Light, AUTOCAD, EXCEL ,GANTT Project  
Standards: NFC 15100 , NBN EN 12464-1



### Publications

Renewable energy journal  
D.Ramallo, A.Moutaouikil, R.Guerrero-Lemus, L.Shephard[ The influence of extreme dust events in the current and future 100% renewable power scenarios in Tenerife]  
Journal : Renewable Energy



### Special skills

- Artificial Neural network: Rstudio,Matlab
- Programming languages :Python, C++
- Data analysis: Logiciel R.
- Signal processing: Labview .
- Embedded systems: VHDL (QUARTUS)
- Electrical systems engineering:ETAP
- Power electronics,control electronics
- Operating systems: Windows, Linux.
- Management: Project management,



### Languages

Arabe: Mother tongue.  
Tamazight: Mother tongue.  
French: Fluent CFC score : C1.  
English: Fluent, Toefl score: B2.  
Spanish: Beginner.



### Activities and interest

Cooking



Traveling

