



CHERKAOUI Anass

Ph.D. Student in Image Processing

Engineer in Physics

Certified in Machine Learning

PhD student based in Germany, at the end of my thesis (available full-time) and I m looking for a position that will allow me to develop my experience in the fields of image processing, machine learning, optics and computer vision.

CONTACT



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IT SKILLS:

- MATLAB
- Python
- C, C++
- Data structures, Data modeling, Data visualization
- OpenGL
- Regression, Clustering, and classification
- Tensorflow, Pytorch, Keras, Theano
- Scikit-Learn, OpenCV
- ImageJ
- ITK-SNAP
- Orange Data Mining, SQL
- ZEEMAX

PUBLICATIONS IN PEER-REVIEWED

- Brain Tumor Segmentation by Generalized Optical Scanning Holography based Active Contour.
- Automated 3D MRI brain tumor segmentation using Optical Scanning Holography based on active contour model.
- Advanced framework based on an optical correlator and deep learning for segmentation and classification of derma disease.

CERTIFICATES

- Deep Learning
- Machine Learning
- Computer Vision
- Artificial Intelligence
- Python

LANGUAGES

Arabic



French



English



German



EDUCATION

Doctorate in Physics – specialties: Image Processing, Optics, Machine Learning, Deep Learning.

| NOV.2020 - Present (Working remotely)

Moulay Ismail University, Meknes Morocco

Master's degree in Optics, Photonics and Information Processing

| 2018 - 2020

Grade: Good, Rank: 2/30

Department of Physics, Moulay Ismail University, Meknes Morocco

Bachelor's degree in Physics: Materials, and Applications

| 2015 - 2018

Department of Physics, Moulay Ismail University, Meknes Morocco

PROJECTS AND PROFESSIONAL EXPERIENCE

Ph.D Student | NOV. 2020 - Present (Working remotely)

THESIS: Advanced framework based on optical image processing and deep learning/machine learning to prevent severe diseases and mental illnesses

- Development of a new approach for the detection and 3D segmentation of Brain tumors.
- Implementation of a method for the detection and classification of Skin diseases.

OPTIMEE Lab, Moulay Ismail University, Meknes Morocco

Research Assistant | DEC. 2020 - DEC.2021

- Physics experiments: Calorimeter, Vapor Pressure, Coordinate Systems, Pendulum with variable g, Lenses, Reflection, and Refraction.
- Over 200 hours of tutorials and practical work in Optics, Mechanics, Thermodynamics.

OPTIMEE Lab, Moulay Ismail University, Meknes Morocco

Master's degree | FEB.2020 - SEP.2020

Master's project: Motion estimation and high dynamic range & object detection (YOLOv3, Faster R-CNN, Mask RCNN...).

- Improve an algorithm for executing an image HDR based on deep learning without the need for many images with different exposure times.
- Implement algorithms of real-time object detection (YOLOv3, Faster R-CNN, Mask RCNN), tracking, and motion estimation based on Machine learning/Deep learning.

AGC Automotive Induver Morocco, Kénitra, Morocco

Bachelor's degree | FEB.2018 - AUG.2018

Bachelor's Project: Graphene and its Applications in Telecommunications

Moulay Ismail University, Meknes Morocco