



# CHERKAOUI Anass

Ph.D. student, 2nd year in Optics, Deep learning,  
Medical imaging and Computer vision

*An enthusiastic physicist scientist with well developed analytical skills and research experience in optics, computer vision and Image Processing*

## CONTACT



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## IT SKILLS:

- MATLAB
- COMSOL
- PYTHON
- Illustrator
- Photoshop
- Opencv,Keras,Tensorflow
- ITK-SNAP
- LATEX
- PHP, HTML, CSS, Bootstrap

## CERTIFICATES:

- Deep Learning
- Machine Learning
- Computer Vision
- Artificial Intelligence
- Python
- Quantum Computing
- Cybersecurity
- Chatbot

## EDUCATION

**Ph.D. student in physics – specialties: Optics, Photonics, Medical Imaging, and computer vision**



| Dec.2020 - present

Moulay Ismail University, Meknes Morocco  
Laboratory of Optics, Information Processing, Mechanics, Energy and Electronics (OPTIMÉE)

**Master's degree in Optics, Photonics and Information Processing**



| 2018 - 2020

Grade: Good, Rank: 2/30  
Moulay Ismail University, Meknes Morocco  
Department of Physics

**Bachelor's degree in Physics, option Materials, and Applications**



| 2015 - 2018

Moulay Ismail University, Meknes Morocco  
Department of Physics

**Baccalaureate degree in Physics and Chemistry**



| 2014 - 2015

OUED LMAKHAZIN High School, Meknes Morocco

## LANGUAGES

Arabic	●	●	●	●	●
French	●	●	●	●	●
English	●	●	●	●	●
German	●	●	●	●	●

## INTERESTS:

Travel, Psychology, Sport

## PROJECTS

### Ph.D | Dec. 2020 - Present

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

Moulay Ismail University, Meknes Morocco

Laboratory: Laboratory of Optics, Information Processing, Mechanics, Energy and Electronics (OPTIMEE)

Thesis supervisor: Abdenbi BOUZID (head of the OPTIMEE laboratory)

Co-supervisors: Younes ACHAQUI(OPTIMEE) & Abdelaziz ESSADIK(OPTIMEE)

### Master's degree | Feb.2020 - SEBT.2020

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

Moulay Ismail University, Meknes Morocco

### Bachelor's degree | Feb.2018 - AUG.2018

**Bachelor's Project: Graphene and its Applications in Telecommunications**

Moulay Ismail University, Meknes Morocco

### PUBLICATIONS IN PEER-REVIEWED SCIENTIFIC JOURNALS

- Brain Tumor Segmentation by Generalized Optical Scanning Holography based Active Contour (Corresponding author)
- Automated 3D MRI brain tumor segmentation using Optical Scanning Holography based on active contour model (Corresponding author)
- Advanced framework based on an optical correlator and deep learning for segmentation and classification of derma disease (Corresponding author)
- Brain tumor detection and segmentation using a hybrid optical method by active contour (Corresponding author)
- Brain tumor segmentation with the joint transform correlator based active contour(Corresponding author)

### POSTER

- Brain Tumor Segmentation by Generalized Optical Scanning Holography based Active Contour (Corresponding author)

### TECHNICAL COMPETENCIES:

- Computer Vision
- Digital Image Processing
- Video Processing
- Artificial Intelligence
- Machine learning
- Deep learning
- Information Theory
- Optoelectronics
- Semiconductor
- Nonlinear Optics
- Holography
- Laser Physics
- Optical Fibres and Telecommunication Systems
- Acoustics & Photonic Crystals
- Fourier Optics
- Sensors
- Medical Imaging

### REFEREES

**Dr. Bouزيد Abdenbi, head of the OPTIMEE Laboratory and Professor at Moulay Ismail University.**

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**Dr. Cherkaoui Eddeqagi Nouredine, Professor at Moulay Ismail University.**

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