

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
- Quintum 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



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 ACHAOUR(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

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

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)

REFEREES

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

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