



Mohammed El Adoui (PhD)

POST DOCTORAL RESEARCHER | DATA SCIENTIST | MACHINE & DEEP LEARNING EXPERT
DATE OF BIRTH : 11/10/1991

OBJECTIF

Holder of a Ph.D. degree in engineering science and technology since March 2021, and previously a post-doctoral researcher at the UMONS University and university teaching and research assistant in artificial intelligence, multimedia processing, and programming languages. Currently, I am postdoctoral researcher and ML senior Engineer at the Faculty of Computer Science in Namur.

I am looking for a position in data science, machine, or deep learning engineering.

SKILLS

- Machine Learning
- Deep Learning
- Python, C++ & java Programming
- Image & video processing
- Team management

LANGUAGES

- **French**
Second native language
- **English**
Professional

EXPERIENCE

Postdoctoral Researcher and ML senior Engineer - Faculty of Computer Science – University of Namur • 01/03/2022 - Current – Namur (BE)

Currently, I am a postdoctoral researcher at the Faculty of Computer Science of the University of Namur. I work in direct collaboration with an industrial company (VOCSenS) and the Walloon region to calibrate low-cost gas sensors using new machine learning algorithms. The purpose of this postdoctoral research is to define, design, and evaluate machine learning models to calibrate sensors to predict gas concentrations in the environment. Due to data scarcity, I need to integrate domain constraints given by experts to help learn algorithms and ensure greater transparency to our industrial partner. One of the scientific challenges is therefore to design relevant types of constraints and to prioritize them.

Postdoctoral Researcher and Teaching Assistant - Faculty of Engineering – University of Mons • 23/03/2021 – 01/04/2022 – Mons (BE)

After the completion of my Ph.D., my ultimate goal in my new position is to pursue additional research and training to improve my skills in AI.

My current activities are the continuation of the improvement of my research results in order to make them more accessible and transparent by the various partners. My first task was to apply new artificial intelligence methods for the explainability and interpretability of AI results.

External intern researcher • Case Western Reserve University – Cleveland • 01/01/2019 – 20/12/2019 – Ohio (USA)

During this internship, a large part of my doctoral thesis work was carried out thanks to the collaboration with Cleveland Clinic and the host department. Especially at the level of data acquisition which made to launch the necessary tests for the validation of the proposed methods.

The results have been published in several scientific papers in partnership with Case's researchers. Other papers are still in submission and review.

University Teaching and Research Assistant – Faculty of Engineering – University of Mons 01/11/2015 – 23/03/2021 – Mons (BE)

As a teaching assistant, I participated in the writing and supervision of exercises projects, and practical work related to the subjects of Artificial Intelligence (AI), Advanced Deep Learning, Object-oriented programming, Internet of Objects (IoT), Mobile and Web technologies, Artificial vision, multimedia processing, and basic management of data.

- Nationality: Belgian
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For more information, please visit my website at <https://www.eladoui.info/>

TEACHING ACTIVITIES

- **Artificial Intelligence**
Multi Agent Systems
Machine Learning
Deep Learning (CNN)
- **Advanced Deep Learning**
RNN, LSTM, etc.
Encoder/Decoder
- **Multimedia processing**
Feature extraction
Image indexation
- **Data modeling**
SQL;
Database management systems.
- **Mobile Applications programming**
Android and IOS programming;
React native.
- **Object Oriented programming (C++, Java)**
Design of algorithm;
Fundamental C++ & Java programming.
- **Supervision of final year project**
Projects using Deep Learning
Projects using image processing
Projects of robots programming

At the scientific research level, several purposes have been achieved, such as the development of new methods and technologies for predicting the response of breast cancer to chemotherapy based on image processing and deep learning. These research findings have been published in international journals and presented at many conferences over the world. This work led to the defense of my doctoral thesis in engineering sciences and technology.

Intern Engineer – Jules Bordet Institute 01/01/2016 – 20/12/2016 – Brussels (BE)

Thanks to this internship, the medical issues of the thesis were understood and mastered. This made to provide more solid solutions in partnership with radiologists and specialists.

EDUCATION AND TRAINING

Ph.D. Of Engineering Sciences And Technology – 24 / 03 / 2021 – Faculty Of Engineering – University of Mons (BE)

Master Degree In Computer Sciences & Image Processing – 15/07/2015 – Faculty Of Sciences – Fez (MA)

Bachelor's Degree In Mathematical and Computer Science – 15/06/2013 – Faculty Of Science – Oujda (MA)

PROJECTS

- **Explainable AI for Medical Imaging**
(24/03/2021 – CURRENT)
- **The prediction Of breast cancer response to chemotherapy by Deep Learning and Image processing**
(01/01/2016 – 23/03/2021)
- **Cloud-based Toolbox for Computer Vision**
(17/07/2016 – 19/07/2017)

SCIENTIFIC PUBLICATIONS

- **09 articles published in journals**
- **09 articles published in international conferences**
- [Google scholar](#)

TALKS

- **More than 10 talks in international congress :**

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- **Spie Medical imaging -Congress (San Diego – USA)**
- **CARS Congress (Berlin – Germany)**
- **IWBBIO Congress (Granada – Spain)**
- **CARS Congress (Rennes – France)**
- **Etc.**

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