

Yassin ElJakani

Maître de Conférences | Computer Science: IoT, Cybersecurity, Cloud Computing

📍 Agadir, Morocco | ✉ y.eljakani@uiz.ac.ma | 🔗 linkedin.com/in/yassin-el-jakani | 🌐 orcid.org/0009-0005-8188-2141

Working Experience

Maître de Conférences

11/2025 – Present

Computer Science: Specializing in IoT, Cybersecurity, and Cloud Computing

Education

PhD in IoT, AI, and Security

12/2020 – 06/2025

Agadir, Morocco

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Thesis: *Deep Learning and Parametric Analyses Applied to the Internet of Things: Cross-layer Approach for QoS Prediction and Security in IoT Networks*

LAB: Computer Systems and Vision Laboratory, FS, Ibn Zohr

Research Master in Data Science

09/2018 – 11/2020

Faculty of Sciences

Agadir

Modules and Research Dissertation

Licence Degree in Mathematics and Computer Science

09/2014 – 06/2018

Faculty of Sciences

Agadir

Software Engineering and networking

Publications

Journal

- **Predicting diverse QoS metrics in IoT: An adaptive deep learning cross-layer approach for performance balancing** (2025).
Ad Hoc Networks, vol. 170, 103769, 2025.

Proceedings

- **Physical Layer Parameters for Jamming Attack Detection in VANETs: A Long Short Term Memory Approach** (2023).
Advances in Machine Intelligence and Computer Science Applications, Springer Nature Switzerland, Cham, pp. 306–314, 2023.
DOI: 10.1007/978-3-031-29313-9_27
- **Performances prediction in Wireless Sensor Networks: A survey on Deep learning based-approaches** (2022).
ITM Web of Conferences, vol. 43, 01010, 2022.
DOI: 10.1051/itmconf/20224301010
- **A Nearest Neighbor Based Hamiltonian Clustering Algorithm** (2023).
Artificial Intelligence and Green Computing, Springer Nature Switzerland, Cham, pp. 37–47, 2023.
DOI: 10.1007/978-3-031-46584-0_4
- **Energy-efficient Next Hop Selection for Topology Creation in Wireless Sensor Networks** (2023).
Advances in Machine Intelligence and Computer Science Applications, Springer Nature Switzerland, Cham, pp. 294–305, 2023.
DOI: 10.1007/978-3-031-29313-9_26

Research & Technical Areas

- Improvement of connected object networks using Deep Learning.
- Artificial intelligence (machine learning and deep learning), Big Data and business intelligence.
- Advanced concepts of networking and security.
- Object-oriented design (UML).

- Relational database (SQL/PLSQL), object-oriented programming (Java, C++).
- Operating system (LINUX).

Honor Awards

- **First National Prize**, Huawei ICT Competition, Northern Africa (02/2022 – 04/2022).
Huawei & Ministry of Higher Education, Morocco
- **First Prize in Northern Africa at the Huawei Developer Competition** (11/2022).
Huawei Northern Africa, Egypt

Certificates

- **HCIA — Artificial intelligence** (05/2020) — Huawei
- **HCIA — Cloud services** (08/2020) — Huawei
- **HCIA — Routing & Switching** (07/2020) — Huawei
- **HCIA — 5G** (07/2023) — Huawei
- **TensorFlow Certificate** (2024) — Google
- **Morocco AI summer school** (2023). The program included daily lectures on the latest advancements in AI, PoC development, and a demo presentation.
- **Huawei Seeds for the Future program** (2022). The program included hours of instruction and mentorship from top industry experts on cutting-edge technologies, including 5G, AI, Cloud Computing, and Digital Power. Participants also received the opportunity to participate in the Global Tech4Good competition, through which they honed their skills in leadership, problem-solving, and social entrepreneurship.

Teaching Experience

Engineering studies, “Gestion réseaux” <i>ENSA Agadir</i> Tasks/Achievements: Delivering lectures, supervising labs, preparing exams	<i>04/2021 – 06/2024</i> <i>Agadir, Morocco</i>
Engineering studies, “Sécurité Logiciel” <i>ENSA Agadir</i> Tasks/Achievements: Delivering lectures, supervising labs, preparing exams	<i>04/2021 – 06/2024</i> <i>Agadir, Morocco</i>
Licence — Lab instructor (C/C++) <i>FSA Agadir</i> Tasks/Achievements: Lab instructor for C and C++	<i>02/2021 – 06/2023</i> <i>Agadir, Morocco</i>
Huawei Digitech instructor <i>Digitech Talent FSA (Online)</i> Tasks/Achievements: AI, deep learning, 5G	<i>09/2022 – 12/2023</i>

Public Speaking

- The International Conference on Artificial Intelligence and Engineering (2022).
- The International Conference Of Machine Intelligence And Computer Science Applications (2022).
- Devovx Morocco, Risk Management (10/2024): *Risk Management: Elevate Your Defense with NIST Cybersecurity Framework 2.0*.
- Google Developer Festival (DevFest) ELJadida, Agadir: federated learning, IoT, LLMs.

Volunteer Experience

Science for All Association <i>Secretary General, Training Manager</i> http://sciencespourtous.net/	<i>09/2021 – Present</i> <i>Morocco</i>
• Helping local community with ICT	

Hobbies

- Trekking

- Hiking

Languages

English (Anglais)	Professional Working Proficiency
Arabic	Full Professional Proficiency
French	Professional Working Proficiency
Tamazight	Native or Bilingual Proficiency