

Lounes Meddahi

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🌐 [LounesMD](#) • EU citizenship (French)

Summary

Passionate about Machine Learning, I am particularly interested in improving learning methods in complex environments. With a strong commitment to research and its applications, I aim to improve and create novel algorithms and techniques that deepen our knowledge of learning processes.

Experience

Sony AI

Applied Research Intern

Working on heuristics for automatic dish evaluation in Sony's Gastronomy Project.

Tokyo, Japan

02.2024–08.2024, Full-time

InstaDeep

Applied Research Intern

Implementing reinforcement learning train scheduling algorithms in collaboration with Deutsche Bahn.

- Pivotal roles at InstaDeep: Contributing to the InstaDeep x BioNTech hackathon, Workshop retreats in Berlin for the CTMS project, Nominated and Elected **AI Expert** for the CTMS initiative.
- [Authored](#) a research paper to share and present my work.

Paris, France

05.2023–11.2023, Full-time

INRIA – EMPENN

Research Assistant

Research assistant focused on using deep learning for segmenting strokes in medical imaging.

- Proposed and developed a novel approach for multi-modality stroke segmentation.
- [Authored](#) and soon submitted a research paper.

Rennes, France

09.2022–04.2023, Part-time

IMT Nord-Europe – CERI SN

Research Intern

Research internship centered on advancing IoT security and scalability using blockchain.

- [Publication](#) of results and selected **Best paper award** at IEEE ISNCC'23.

Villeneuve d'Ascq, France

06.2022–08.2022, Full-time

INRIA – Scool

Intern

Discovery internship in research and Reinforcement Learning.

- [Interpretation and in-depth study](#) of reinforcement learning algorithms and environments; Source code shared in open source.

Villeneuve d'Ascq, France

06.2021–07.2021, Full-time

Education

ENS Rennes

M.Sc. in Computer Science (Track "Normalien")

Master's degrees in computer science and mathematics from France's top scientific school.

Rennes, France

09.2022–09.2025

University of Lille

B.Sc. in Mathematics and Computer Science (Graduated Summa Cum Laude).

Lille, France

09.2019–06.2022

Publications

MM-STROKENet: A new Approach for Stroke Lesion Segmentation Using multi MRI Modalities

[2]

Lounes Meddahi, Francesca Galassi, Stéphanie Leplaideur, Elise Bannier and Arthur Masson, Soon to be submitted, 2023

[Best paper award] Leveraging blockchain for a robust and scalable device identification in LoRaWAN

[1]

Lounes Meddahi, Ahmed Meddahi, Patrick Sondi and Fen Zhou, 10th International Symposium on Networks, Computers and Communications (ISNCC'23), **Best paper award**, top 4 out of 404, 2023

Skills and Interests

Languages: French (Native speaker), English (Proficient: TOEIC C1 and IELTS C1)

Relevant Courses: Reinforcement Learning, Deep Learning, Game Theory, Computer Graphics. [Details.](#)

Programming: Python, C, Java

Interests: Machine Learning, Programming, Epistemology