

# Ahmed Laouar

PhD Candidate - CRIL, Univ. Artois & CNRS



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## About me

Currently in the third year of my PhD at CRIL, my research focuses on the management of contradictory information in lightweight ontologies, as well as on explainable AI, with a specific application context in access control systems. The aim is to develop efficient methods for dealing with possible inconsistencies, while providing clear and useful explanations of the decisions made. I'm also part of the European project STARWARS, which focuses on data management for wastewater networks. I'm working mainly on issues related to inconsistent data and explainability of the proposed solutions.

## Projects

- OrBAC ontology Demo web-app, SUM 2024 : 📄
- Experiments for the JELIA 2023 paper (*py\_reasoner*): 📄
- Facial emotion recognition: 📄
- Chess Data Mining and Analysis *Lichess dataset*: 📄
- Predicting Biological Response: 📄




## Languages

French	C2	●●●●●
English	C2	●●●●●
Arabic	C2	●●●●●

## Interests

Swimming / Cycling / Hiking /  
Raspberry Pi / Arduino /  
Android Dev. / Linux





## EXPERIENCE

- Ongoing **Computer Science & applications**  
RESEARCHER PHD CANDIDATE · CRIL, Univ. Artois 📍  
Managing inconsistency in partially ordered information: application to dynamic and explainable access control models. 
- Ongoing **Teaching, Bachelor degree in computer science**  
PART-TIME TEACHER · UFR des sciences Jean Perrin, Lens 📍  
Algorithmic & programming (python), functional programming (Haskell), Web development (HTML/CSS), Unix commands. 
- 2022 **Internship in research lab**  
MASTER'S DEGREE IN AI · CRIL, Univ. Artois & CNRS 📍  
Study of access control systems and models, and knowledge representation in lightweight description logics. 

## PUBLICATIONS

- 2024 *An Ontology-Based Approach for Handling Inconsistency in Explainable and Prioritized Access Control Models*, Ahmed Laouar, Toky Raboannary, Salem Benferhat, SUM 2024. [DOI] [HAL]
- 2024 *Conflict handling strategies for partially ordered access control security policies*, Ahmed Laouar, Sihem Belabbes, Salem Benferhat, IEEE PACRIM 2024. [DOI] [HAL]
- 2023 *Tractable Closure-Based Possibilistic Repair for Partially Ordered DL-Lite Ontologies*, Ahmed Laouar, Sihem Belabbes, Salem Benferhat, JELIA 2023. [DOI] [HAL]

## EDUCATION

- Ongoing **Computer Science & applications**  
PHD · CRIL, Univ. Artois 📄  
Thesis topic: Managing inconsistency in partially ordered information: application to dynamic and explainable access control models. Inconsistency management, access control, KRR, explainable AI, lightweight ontologies, partial order. 
- 2022 **Artificial Intelligence**  
MASTER'S DEGREE · Artois University 📄  
Internship topic: Evolutive Access Control Models. 
- 2021 **Networks and Distributed Systems**  
MASTER'S DEGREE · University of Constantine 2 📄  
Internship topic: Applying Machine Learning techniques to Drug Discovery. 
- 2019 **Computer Science**  
BACHELOR DEGREE · University of de Constantine 2 📄  
Graduation project: Development of a mobile application for voice recognition. 

## SECONDMENTS

- 03-06/2024 *University of Cape Town, South Africa*. Collaboration in the context of the Staff-Exchange project STARWARS.
- 07-09/2024 *Faculté des sciences et technologies de Fès, Maroc*. Collaboration in the context of the Staff-Exchange project STARWARS.

## SKILLS

Python/Django	██████████
HTML/CSS/JS	██████████
LaTeX	██████████
Haskell	██████████
C/Java/POO	██████████
PyTorch/Keras	██████████