Areski **Himeur**

PhD in Computer Science — Artificial Intelligence · Fixed-term Lecturer and Researcher

✉ contact@areski.info · 🏠 areski.info · ⭕ Hareski · in Areski Himeur · ⓘ 0000-0002-6281-9762

Education

PhD Student - Constraint Acquisition
LIRMM, University of Montpellier, France

Reducing Dependency on Prior Knowledge in Constraint Acquisition
2021 - 2025.

Supervised by Christian Bessiere and Clément Carbonnel — Defended on December 3, 2025.

We propose novel passive constraint acquisition methods that operate without any prior knowledge and with a minimum of examples, while producing models that tend to be interpretable and to generalize well to unseen data.

Master's Degree
University of Montpellier, France

Theoretical Computer Science
2019 - 2021

Algorithm design, artificial intelligence, optimisation, graph theory, computability, complexity, randomized algorithm, logic, …

Engineering and Research Education

FIGURE Network Program Master Course of Engineering [CMI]
2016 - 2021

A program integrating bachelor's and master's studies with a 20% increase in course hours compared to standard degrees.

Bachelor's Degree
University of Montpellier, France

Computer Science
2016 - 2019

Mathematics applied to computer science, different programming prisms, numerous languages and techniques.

International Mobility: September to December 2018 at the University of Helsinki, Finland.

Experience

Fixed-term Lecturer and Researcher
University of Montpellier

"Enseignant-Chercheur Contractuel"
Sept 2025 - Present

- Teaching at the Department of Telecommunications, Services and Uses
- Research at the Chroma team (INSA Lyon and INRIA)

Fixed-term Lecturer and Researcher (ATER)
University of Montpellier

ATER at the Faculty of Sciences and LIRMM
Sept 2024 - August 2025

Research Internship
LIRMM, University of Montpellier

Constraint Programming and Neural Network
February - June 2021

Supervised by Christian Bessiere, Clément Carbonnel and Nadjib Lazaar.

Research on machine learning at the intersection of neural networks and constraint programming.

Research Internship
LIRMM, University of Montpellier

Multi-Agent Argumentation Graphs
June 2020

Supervised by Madalina Croitoru.

Research on multi-agent weighted bipolar argumentation frameworks.

Internship - Fullstack Developer
Hawk Platform

Real-Time Auction Platform Monitoring Tool
May - August 2019

- Development of a Golang API and a React UI.
- Continuous integration and deployment with tests: Gitlab CI and Docker.

Publications

Learning Compact Representations of Constraint Networks
ECAI-2025

In the Proceedings of the 27th European Conference on Artificial Intelligence (to appear).

Christian Bessiere, Clément Carbonnel, Areski Himeur *(alphabetical order)*.

Learning Constraint Networks over Unknown Constraint Languages
IJCAI-2023

In the Proceedings of the Thirty-Second International Joint Conference on Artificial Intelligence.

Christian Bessiere, Clément Carbonnel, Areski Himeur *(alphabetical order)*.

Assessing the Impact of Agents in Weighted Bipolar Argumentation Frameworks   SGAI-2021

IN THE PROCEEDINGS OF THE 41ST SGAI INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE.
Areski Himeur, Bruno Yun, Pierre Bisquert, Madalina Croitoru *(fixed order)*.

Projects

Bioinformatics Project   ISEM - Montpellier Institute of Evolutionary Sciences

ALGORITHMS FOR ORDER CONSENSUS.   Sept 2019 - May 2020

Supervised by Sèverine Bérard.

Design of an FPT algorithm for gene adjacency and implementation in C++.
• GitHub Project: https://github.com/Hareski/ConsensusOrdres

Project   Collaboration with the Laboratory of Molecular Endocrinology of Montpellier

GENERATION OF MEALS UNDER NUTRITIONAL CONSTRAINTS.   Sept 2018 - June 2019

Supervised by Eric Bourreau.

• Development with constraint programming of a customisable generator of meals with a website (Jakarta/Java).
• GitHub Project: https://github.com/Hareski/Medimenu

Teaching

500 hours to diverse audiences (from undergraduate to master's level) in university institutes, engineering schools, and faculties. Taught a wide range of modules including AI, algorithms, programming, and systems.

INSA Lyon - Department of Telecommunications, Services and Uses   Villeurbanne

FIXED-TERM LECTURER AND RESEARCHER - 116H ETD   2025-2026

Course Manager of a part of *AI for Telecommunications* (Design of lectures, labs, and exams).
• Lectures/Practical work/Tutorials on *AI for Telecommunications* (Deep Learning, RL, Transformers) - 4th year Engineer
• Tutorials on *System Architecture* - 3rd year Engineer (TP)
• Tutorials and practical work on *Parallel and Concurrent Programming* - 3rd year Engineer
• Tutorials and practical work on *C Programming* - 3rd year Engineer
• Tutorials on *Algorithmics* - 3rd year Engineer

Faculty of Sciences - Computer Science Department   Montpellier

NON-TENURED TEACHING AND RESEARCH FELLOW (ATER) - 192 HOURS   2024-2025

• Practical work on *Development and DevOps* (JAVA, Git, Selenium, Cucumber, SonarSource, CI, Docker) - 3rd year L3
• Tutorials and practical work on *Functional Programming* (Ocaml) - 1st year L1
• Tutorials and practical work on *Deterministic Automata* - 1st year L1
• Tutorials and practical work on *Object-Oriented Modeling* (Java and UML) - 1st year PEIP (preparatory course)
• Practical work on *Multitasking and Concurrency*: Networking, Threads, and Inter-Process Communication - 3rd year L3
• Tutorials on *Complexity, Computability, Decidability* - 3rd year L3
• Practical work on *Professional Skills (Redaction, Presentation, etc.)* - 3rd year L3

Polytech (Engineering School)   Montpellier

TEACHING MISSION - 64 HOURS   2023-2024

Creation of course materials (lectures, tutorials, practical work, assessments) on the basis of previous resources.
• Lectures/Practical work/Tutorials on *Algorithm Complexity Analysis* - 3rd year of engineering school
• Lectures/Practical work/Tutorials on *Reduction and Dynamic Programming* - 5th year of engineering school
• Lectures/Practical work/Tutorials on *Fullstack with Golang* (Web, Algo, Concurrency) - 3rd year of engineering school

Faculty of Sciences - Computer Science Department   Montpellier

TEACHING MISSION - 64 HOURS   2022-2023

• Tutorials and practical work on *System Programming in Bash, Python and C* - 1st year PEIP (preparatory course)
• Tutorials and practical work on *Advanced Object-Oriented Modeling* (JAVA, UML, Project Management) - 2nd year L2

IUT - University Institutes of Technology of Montpellier   Montpellier

TEACHING MISSION - 64 HOURS   2021-2022

• Tutorials and practical work on *Operating Systems Principles* - 2nd year
• Tutorials and practical work on *Network Architecture and Development* - 1st year

Activities and Volunteering

Volunteering at Conferences

- IJCAI 2023 Volunteer - 32nd International Joint Conference on Artificial Intelligence, *Macao - 2023*
- CP 2021 Volunteer - 27th International Conference on Principles and Practice of Constraint Programming, *Online - 2021*
- ROADEF 2020 Volunteer - 21st French Conference on Operations Research and Decision Support, *Montpellier - 2020*

Summer School Experience

- ESSAI & ACAI - European Summer School on Artificial Intelligence and Advanced Course on Artificial Intelligence, *Ljubljana - 2023*
- SAT/SMT/AR/CP - Satisfiability, Satisfiability Modulo Theories, Automated Reasoning and Constraint Programming, *Haifa - 2022*