

Curriculum vitæ — Areski HIMEUR

PHD STUDENT IN THEORETICAL COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE AT THE UNIVERSITY OF MONTPELLIER

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PhD Student • Constraint Acquisition

LIRMM, Montpellier, France

SUPERVISED BY CHRISTIAN BESSIERE AND CLÉMENT CARBONNEL

2021 - Ongoing

The objective of this thesis is threefold :

- Study new types of queries that can be asked to a user for the constraint acquisition;
- Understanding of the strengths and weaknesses of neural networks for learning to classify data with a combinatorial structure;
- Development of an acquisition software capable of adapting to the needs of industrialists to learn and solve problems.

Details

Name:	HIMEUR	E-mail:	cv@areski.info
First names:	Areski Guilhem	Language:	French , native speaker.
Year of birth:	1998		English , advanced and effective operational skills.
Nationality:	French		TOEIC [Listening and Reading]: score 950/990.

Publications

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|------|--|------------|
| 2023 | Learning Constraint Networks over Unknown Constraint Languages,
Christian Bessiere, Clément Carbonnel, Areski Himeur <i>[alphabetical order]</i> | IJCAI 2023 |
| 2021 | Assessing the Impact of Agents in Weighted Bipolar Argumentation Frameworks,
Areski Himeur, Bruno Yun, Pierre Bisquert, Madalina Croitoru <i>[fixed order]</i> | SGAI 2021 |

Teaching

[MCE 2021-2022] IUT - University Institutes of Technology of Montpellier

- Tutorials and practical work on operating systems principles, 2nd year of IUT
- Tutorials and practical work on network architecture and development, 1st year of BUT

[MCE 2022-2023] Faculty of Sciences of Montpellier, Computer Science Department

- Tutorials and practical work on system programming in Bash, Python and C, 1st year PEIP (preparatory course)
- Tutorials and practical work on object-oriented modeling (JAVA, UML, project management, etc.), 2nd year L2

[MCE 2023-2024] Polytech Montpellier Engineering School

- Lectures/Practical work/Tutorials on algorithm complexity analysis, 3rd year of engineering school (IG3)*
- Lectures/Practical work/Tutorials on reduction and dynamic programming, 4th/5th year of engineering school (IG4, DO5)*
- Lectures/Practical work/Tutorials on Fullstack with Golang (web, algo, concurrency), 3rd year of engineering school (DO3)*

*Creation of complete course materials (lectures, tutorials, practical work, assessments) on the basis of previous resources.

Education

Master's Degree • Theoretical Computer Science

University of Montpellier, France • 2019-2021

Algorithm design, artificial intelligence, optimisation, graph theory, computability, complexity, probabilistic algorithmics, logic, etc.

Master Course of Engineering [CMI] • Engineering and Research Education

• 2016-2021

The FIGURE network of engineering programs through universities with a 20% increase in hours for bachelor's and master's degrees.

Bachelor's Degree • Computer Science

University of Montpellier, France • 2016-2019

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

International Mobility

University of Helsinki - Finland • Aug-Dec 2018

All the courses, exercises and projects in English.

Experience

Research Internship · Constraint Programming and Neural Network

LIRMM - MONTPELLIER LABORATORY OF COMPUTER SCIENCE, ROBOTICS AND MICROELECTRONICS

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

Montpellier, France

February - June 2021

Research Internship · Multi-Agent Argumentation Graphs

LIRMM - MONTPELLIER LABORATORY OF COMPUTER SCIENCE, ROBOTICS AND MICROELECTRONICS

Research on multi-agent weighted bipolar argumentation frameworks.

Montpellier, France

June 2020

Bioinformatics Project · Algorithms for Order Consensus

ISEM - MONTPELLIER INSTITUTE OF EVOLUTIONARY SCIENCES

Design of an FPT algorithm for gene adjacency and implementation in C++.

Montpellier, France

September 2019 - May 2020

Internship · Real-Time Auction Platform Monitoring Tool

FULLSTACK DEVELOPER AT HAWK PLATFORM

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

Montpellier, France

May - August 2019

Project · Generation of Meals under Nutritional Constraints

IN COLLABORATION WITH THE LABORATORY OF MOLECULAR ENDOCRINOLOGY OF MONTPELLIER

Development with constraint programming of a customisable generator of meals with a website (*Jakarta/Java*).

Montpellier, France

September 2018 - June 2019

More

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.

2023

SAT/SMT/AR/CP, Satisfiability, Satisfiability Modulo Theories, Automated Reasoning and Constraint Programming.

2022