Areski Guilhem **Himeur**

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

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Education

PhD student · Constraint acquisition   *University of Montpellier, LIRMM, 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.

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.

International mobility [August - December 2018] · University of Helsinki - Finland
- Courses, exercises and projects in English.

CMI · Engineering and Research Education
- Selective and reinforced university education thanks to a 20% increase in the number of hours throughout the bachelor and master degrees.

Bachelor's degree · Computer Science   *University of Montpellier, France* · *2016-2019*

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

Experience

Research internship · Constraint programming and neural network   *Montpellier, France*

LIRMM - MONTPELLIER LABORATORY OF COMPUTER SCIENCE, ROBOTICS AND MICROELECTRONICS   *February - June 2021*

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

Research internship · Multi-agent argumentation graphs   *Montpellier, France*

LIRMM - MONTPELLIER LABORATORY OF COMPUTER SCIENCE, ROBOTICS AND MICROELECTRONICS   *June 2020*

Publication: Himeur, Areski, et al. *"Assessing the Impact of Agents in Weighted Bipolar Argumentation Frameworks."* International Conference on Innovative Techniques and Applications of Artificial Intelligence. Springer, Cham, 2021.

Project · Bioinformatics - Algorithms for order consensus   *Montpellier, France*

ISEM - MONTPELLIER INSTITUTE OF EVOLUTIONARY SCIENCES   *September 2019 - May 2020*

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

Internship · Real-time auction platform monitoring tool   *Montpellier, France*

FULLSTACK DEVELOPER AT HAWK PLATFORM   *May - August 2019*

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

Project · Generation of meals under nutritional constraints   *Montpellier, France*

IN COLLABORATION WITH THE LABORATORY OF MOLECULAR ENDOCRINOLOGY OF MONTPELLIER   *September 2018 - June 2019*

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

Advanced English, effective operational proficiency - TOEIC [*Listening and Reading*] : score 950/990.

ROADEF 2020 volunteer, congress on Operational Research in Montpellier.