Areski HIMEUR

PhD Student in Computer Science and Artificial Intelligence at the University of Montpellier, France

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Details

Name: HIMEUR	First Names: Areski Guilhem	Nationality: French
Personal email: \square himeur@areski.info	Professional email: \boxdot are ski.himeur@limm.fr	
Languages: French (Native), English (Advance)	ed, TOEIC Listening and Reading: 950/990)	

Education

PhD Student – Constraint Acquisition	2021 – Ongoing
LIRMM, University of Montpellier	PhD Defense scheduled
Supervised by Christian Bessiere 🗹 and Clément Carbonnel 🗹	in September 2025
Developed novel methods for constraint network learning that reduce input requirements (fewer ex-	amples, no prior candidates
constraints) and improve interpretability, without degrading output quality. This broadens the	applicability of constraint
acquisition, facilitated by the development of Python packages designed to seamlessly integrate in	nto existing programs. Fur-
thermore, the thesis explores the application of constraint acquisition in interaction with neural n	etworks.
Master's Degree – Theoretical Computer Science University of Montpellier, France	2019 - 2021

 $\circ\,$ Algorithm design, artificial intelligence, optimisation, graph theory, computability, complexity, randomized algorithm, logic, etc.

Engineering and Research Education

FIGURE Network Program Master Course of Engineering [CMI]

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

Bachelor's Degree – Computer Science

University of Montpellier, France

- Mathematics applied to computer science, different programming prisms, numerous languages and techniques.
- International Mobility (September to December 2018) University of Helsinki – Finland: All the courses, exercises, and projects in English.

Experience

Non-Tenured Teaching and Research Fellow

LIRMM, University of Montpellier

Research Internship – Constraint Programming and Neural Network

LIRMM, University of Montpellier Supervised by Christian Bessiere , Clément Carbonnel and Nadjib Lazaar

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

Montpellier, France Sept 2024 – August 2025

> Montpellier, France February – June 2021

2016 - 2021

2016 - 2019

Research Internship – Multi-Agent Argumentation Graphs LIRMM, University of Montpellier Supervised by Madalina, Croitory	Montpellier, France June 2020
• Research on multi-agent weighted bipolar argumentation frameworks.	
Internship – Real-Time Auction Platform Monitoring Tool Fullstack Developer at Hawk Platform	Montpellier, France May – August 2019
• Development of a Golang API and a React UI.	
• Continuous integration and deployment with tests: Gitlab CI and Docker.	
Publications	
Learning Constraint Networks over Unknown Constraint Languages Christian Bessiere, Clément Carbonnel, Areski Himeur (alphabetical order)	IJCAI 2023
 0.24963/ijcai.2023/208	
Assessing the Impact of Agents in Weighted Bipolar Argumentation Frameworks Areski Himeur, Bruno Yun, Pierre Bisquert, Madalina Croitoru <i>(fixed order)</i>	5 SGAI 2021
 ○ 10.1007/978-3-030-91100-3_6 ☑ in the Proceedings of the 41st SGAI International Con- ference on Artificial Intelligence. 	
Projects	
Bioinformatics Project – Algorithms for Order Consensus Supervised by Sèverine Bérard 🗹 ISEM - Montpellier Institute of Evolutionary Sciences	Montpellier, France Sept 2019 – May 2020
\circ Design of an FPT algorithm for gene adjacency and implementation in C++.	
Project – Generation of Meals under Nutritional Constraints Supervised by Eric Bourreau Z in collaboration with the Laboratory of Molecular Endocrinology of Montpellier	Montpellier, France Sept 2018 – June 2019
• Development with constraint programming of a customisable generator of meals with a we	ebsite (Jakarta/Java).
Teaching	
Faculty of Sciences of Montpellier – Computer Science Department Non-Tenured Teaching and Research Fellow (192 hours)	2024-2025
o Practical work on Development and DevOne (IAVA Cit Selenium Cucumber SonarSou	rce, CI, Docker) – 3rd year L3
\circ 1 factical work on Development and Develops (571771, Oil, Determine, Cacamoer, Donardour	, , , ,
 Tutorials and practical work on Functional Programming (Ocaml) – 1st year L1 	
 Tutorials and practical work on <i>Functional Programming (Ocaml)</i> – 1st year L1 Tutorials and practical work on <i>Deterministic Automata</i> – 1st year L1 	
 Tutorials and practical work on <i>Deterministic Automata</i> – 1st year L1 Tutorials and practical work on <i>Object-Oriented Modeling (Java and UML)</i> – 1st year PE 	IP (preparatory course)
 Tutorials and practical work on <i>Deterministic Automata – 1st year L1</i> Tutorials and practical work on <i>Deterministic Automata – 1st year L1</i> Tutorials and practical work on <i>Object-Oriented Modeling (Java and UML) – 1st year PE</i> Practical work on <i>Multitasking and Concurrency: Networking, Threads, and Inter-Process</i> 	IP (preparatory course) Communication – 3rd year L3
 Tutorials and practical work on <i>Functional Programming (Ocaml)</i> – 1st year L1 Tutorials and practical work on <i>Deterministic Automata</i> – 1st year L1 Tutorials and practical work on <i>Object-Oriented Modeling (Java and UML)</i> – 1st year PE Practical work on <i>Multitasking and Concurrency: Networking, Threads, and Inter-Process</i> Tutorials on <i>Complexity, Computability, Decidability</i> – 3rd year L3 	IP (preparatory course) Communication – 3rd year L3

Polytech (Engineering School) – Montpellier

Teaching Mission (64 hours)

Creation of complete 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
- \circ 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 of Montpellier – Computer Science Department

Teaching Mission (64 hours)

- \circ 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

Teaching Mission (64 hours)

- $\circ~$ Tutorials and practical work on $\mathit{Operating~Systems~Principles}$ 2nd year
- $\circ~$ Tutorials and practical work on Network Architecture and Development 1st year

Activities and Volunteering

Volunteering at Conferences

- $\circ\,$ IJCAI 2023 Volunteer – 32
nd International Joint Conference on Artificial Intelligence
 Macao – 2023
- $\circ\,$ CP 2021 Volunteer 27th International Conference on Principles and Practice of Constraint Programming Online 2021
- $\circ\,$ 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
- $\circ~{\rm SAT/SMT/AR/CP}$ Satisfiability, Satisfiability Modulo Theories, Automated Reasoning and Constraint Programming Haifa 2022

2023-2024

2021-2022

2022-2023