

Chloé Hiba ALQASIR

PhD in Artificial Intelligence*
Computer Vision and Deep Learning

25/09/1992 (31 years)
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Research Experiences

Dec 2020 – Aug 2022

Hubert Curien laboratory

Temporary teaching and research associate (ATER)

Boosting generalization performance with shape priors in image classification.

Dec 2017 – Nov 2020

Hubert Curien laboratory *in partnership with* **Bluecime**

PhD candidate

**“Deep Learning for Chairlift Scene Analysis:
Boosting Generalization in Multi-domain Context”**

- Develop ML solutions improved the performance of **SIVAO** system in identifying risky situations in chairlifts;
- Optimize DL systems and associated algorithms for better generalization in multi-domain context;
- Design and conduct experiments to evaluate theories for better efficacy with limited or no labeled data;
- Provide reports and presentations to project partners.

Mar 2017 – Jul 2017

Hubert Curien laboratory

Research Intern

“Texture synthesis: implementation of a CNN-based algorithm and performance assessment via a trained auto-encoder.”

- Provide a pedagogical introduction dedicated to CNNs;
- Implement a CNN-based algorithm for texture synthesis, and develop a method to discriminate between texture synthesis algorithms.

Apr 2016 – Sep 2016

École Nationale Supérieure des Mines

Research Intern

“Mathematical model to estimate energy consumption of the buildings at the scale of district.”

- Design a web crawler and analyse the retrieved data;
- Tweak (Regression, Kriging and MissForest) methods and apply them on the study area (Saint-Étienne).

Teaching Experiences

Dec 2020 - Aug 2022 (ATER contract)

Télécom Saint-Étienne Écoles d'ingénieurs

Temporary teaching and research associate

Create theoretical courses, and their practical implementation and exams. Teach, guide and lead tutoring sessions for engineering school students.

Modules:

| | |
|---------------------------------------|----------------|
| Relational databases and data storage | MySQL |
| Software Engineering | UML and Java |
| Mini-project | C++ and SFML |
| Event-driven programming | Android studio |
| Object Oriented Programming | C++/Java |

Feb 2018 - April 2020 (PT)

Modules:

| | |
|-----------------------------|--------------|
| Graphical user interface | C++ on Qt |
| Object Oriented Programming | C++ on MS VS |

Materials are available at [halqasir.github.io/teaching](https://github.com/halqasir/teaching)

Academic background

2017-2020 Doctor of Philosophy
Computer Science - AI
Université de Lyon ED SIS
In partnership with Bluecime

2015-2017 Master degree in Computer Science
Machine Learning and Data Mining
Jean Monnet University and
École Nationale Supérieure des Mines

2010-2015 Bachelor degree
Information Technology Engineering
Damascus University
Faculty of IT Engineering

Languages

| | |
|---------|---|
| English | Advanced C1 (Cambridge English Certificate) |
| French | Advanced C1 (Certification Le Robert) |
| Spanish | Begginer A1 |
| Arabic | Fluent (native language) |

* Qualified to the functions of “maître de conférences” 2022, section 27 (Informatique) .

Technical Skills

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|--------------------|---|
| Programming | C, C++, Java, Python |
| Deep learning | Keras, Caffe, Tensorflow |
| Data Analysis | RStudio, MATLAB |
| Computer vision | OpenCV, VLFeat, MatConvNet |
| DBMS | MYSQL, PL/SQL |
| Web programming | PHP, JavaServlet |
| Web design | JavaScript, Html5, CSS |
| Semantic Web | SPARQL, protégé |
| Mobile development | Android Studio |
| Software context | Git, Visual Studio, Qt, Linux, Slurm, Excel |

Soft Skills

- Passionate, rigorous and autonomous.
- Fit to work in an international context.
- Listening, empathy and collaborative work.
- Open-mindedness and adaptability.

Hobbies and interests

- Mediterranean cuisine
- Reading
- Chess
- Ping pong

Publications

Alqasir Hiba, Damien Muselet, and Christophe Ducottet. “Introducing Shape Priors in Siamese Networks for Image Classification.” *Neurocomputing* Elsevier 2023.

Alqasir Hiba. “Deep Learning for Chairlift Scene Analysis: Boosting Generalization in Multi-Domain Context.” Doctoral dissertation, Université de Lyon, 2020.

Alqasir Hiba, Damien Muselet, and Christophe Ducottet. “Region Proposal Oriented Approach for Domain Adaptive Object Detection.” *International Conference on Advanced Concepts for Intelligent Vision Systems*. Springer, Cham, 2020.

Alqasir Hiba, Damien Muselet, and Christophe Ducottet. “Mask-guided Image Classification with Siamese Networks.” *International Conference on Computer Vision Theory and Applications*. 2020

Alqasir Hiba, Damien Muselet, and Christophe Ducottet. “Double adaptation de domaine pour la détection d’objets.” *Conférence Nationale d’Intelligence Artificielle*. 2020.

Daoud Alaa, Picard Gauthier, Alqasir Hiba et al. “Communication-wise Comparison of the Online Resource Allocation Methods in CAV Fleets.” *The 14th International Conference on Ambient Systems, Networks and Technologies (ANT)* 2023.

Balbo Flavien ... Alqasir Hiba et al. “RoboTwin: Combining Digital Twin and Artificial Intelligence domains for controlling robots in Industry 4.0” *Conference: 17th International KES Conference - Agents and Multiagent Systems : Technologies and Applications (AMSTA)* 2023.

Daoud Alaa, Alqasir Hiba, Mualla Yazan, et al. “Towards Explainable Recommendations of Resource Allocation Mechanisms in On-Demand Transport Fleets.” *3rd International Workshop on EXplainable and TRAnsparent AI and Multi-Agent Systems (EXTRAAMAS)*. 2021.

References

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