# Antoine Hounsi

*PhD Student at LISTIC*

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## Research interests

Personalized federated reinforcement learning, autonomous drone swarms, federated learning under heterogeneity and resource constraints, multi-agent systems.

## Professional experience

2026 – **PhD Candidate**, *LISTIC*, Université Savoie Mont Blanc, Annecy

2026 **AI Engineer Intern**, *Dynergie*, 6 months
Designed and deployed a four-service pipeline matching public funding programmes with company profiles, using LLM-based extraction, enrichment and explainable scoring.

2024 – 2026 **Research in Federated Learning**, *CRIStAL / Inria*, Lille
Clustered federated learning for heterogeneous clients (MSc thesis); federated learning under energy constraints.

2024 **Research Intern**, *LIRMM, ICAR team*, Montpellier, 6 months
Detection, tracking and re-identification of animals in camera-trap videos (YOLOv5, MegaDetector).

## Education & Diplomas

2026 – **Ph.D. in Computer Science**, *LISTIC*, Université Savoie Mont Blanc

Topic *Personalized federated reinforcement learning for autonomous drone swarms.*

2024 – 2026 **MSc in Machine Learning**, *Université de Lille*, Graduated with high honors

MSc thesis *HCFL: clustered federated learning for heterogeneous clients.* Supervised by Batiste Le Bars (Inria Lille).

2023 – 2024 **Bachelor**, *Vision for Industrial Robotics*, Université de Nîmes, Valedictorian

2021 – 2023 **Bachelor**, *Software Engineering*, École Polytechnique de Lomé, Graduated with high honors, Academic Excellence Award

## Software

CFLA Open-source Python library for clustered federated learning (pypi.org/project/CFLA).

## Skills

Programming Python, C/C++, Java, TypeScript, R

ML & vision PyTorch, TensorFlow, Scikit-learn, Hugging Face, Flower, OpenCV, YOLO

Tools Git, Docker, LaTeX, PostgreSQL, MongoDB

Languages French, English, Fon, Éwé