

Reinforcement Learning Research Opportunities 2026

University of Liège – Montefiore Institute

If you enjoyed the course or are interested in reinforcement learning, we have several opportunities to apply these concepts. We are offering **master's theses**, **paid summer internships**, and **positions** (for graduates).

Research Subjects

- **Autonomous Drone Interception:** Develop a complete vision-to-control pipeline for intercepting rogue drones. The goal is to tackle the perception bottleneck by training and deploying RL policies on NVIDIA Jetson Orin hardware, enabling real-time target tracking and interception from onboard camera feeds.
[jobteaser](#)
- **Open MARL with Crazyflies:** Traditional Multi-Agent RL assumes a fixed number of agents, but real swarms are dynamic. This project explores "Open MARL", designing policies that remain robust as drones join or leave a swarm on the fly. You will develop and validate these methods on our fleet of Crazyflie nano-drones.
- **World Models for Drone Control:** Design and implement model-based RL methods for drone navigation and control tasks. The focus is on learning compact world models that capture useful representations of the environment, and on evaluating how well policies trained in simulation transfer to real hardware (sim-to-real).
- More topics available upon request.

Get in Touch

To apply for a thesis, internship, or position, please contact:

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