Julien CARDINAL, PHD Candidate

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Professional Experience

2024 (6 months)	**Research Engineer in Reinforcement Learning** Combinatorial optimization coupled with RL for component layout in microelectronics at ST Grenoble.
2023 (6 months)	**Project Engineer** Set up a robotics challenge between CentraleSupélec and MBDA in combat drone programming. Evaluation of available equipment. Contact with all parties. Budget calculation. Consideration of human resources.
2020 – 2022	**Active member of CentraleSupélec's "Automatants" AI Association** Intermediary between CentraleSupélec's research AI Hub and the Automatants association. Integrator of Automatants' AI activities at CentraleSupélec. Organizer of two Machine Learning competitions. On-campus AI trainer.
2019 – 2020	**Computer Vision Developer** in contact with the **Météo France AI Lab** AI for short-term weather prediction from satellite data. Advanced convolutional networks and recurrent networks.

Academic years

2023 – 2024	**Double M2 degree in optimization**. Université de Lorraine, Metz : *Complexity, Combinatorial, Linear and Convex Optimization*
2020 – 2024	**Student AI research engineer**. CentraleSupelec, Gif-sur-Yvette: *Research curriculum in Mathematics, Artificial Intelligence, Reinforcement Learning, Machine Learning, NLP, Deep learning, Data Science*
2022	**Student semester M1 Computer science** Ludwig Maximilian Univertät, Munich: *Research in AI, Optimization, Computer Vision*.
2018 – 2020	**Classe préparatoire Maths sup math spé** Lycée Lazariste, Lyon : *Programme MPSI/MP* option Informatique*

Skills

Programming language	python , C/C++, SQL, UML, LaTeX, ReactJS…
Libraries	TENSORFLOW, PYTORCH, GYM…
Soft skills	Agile Scrum methodology, Academic and applied research
Linguistics	English (C1), German (B2)

Competitions

2023	**Xeek Competition:** Optimization TSP - 11/150 Optimization competition like the Travelling Salesman Problem
2022	**Hackathon at Ecole 42:** AI safety - 1/70 Creation of explainable and safe AI, supervised, unsupervised, Computer Vision, in 3 days
	Kaggle Competition: Multi-agent pathfinding - 60/469. Implementation of a specialized A* algorithm, exploration and multi-agent methods