



Valentin Cuzin-Rambaud

MASTER COMPUTER SCIENCE · AI SPECIALIZATION

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I'm currently at the end of my Master's degree and looking for an AI thesis

Education

Master's degree in Computer Sciences, AI specialization

2023 - 2025

CLAUDE-BERNARD UNIVERSITY LYON 1

Lyon, France

- Plateau Balancing project: using AI for IoT (*with arduino*), the plateau learns to balance the ball it supports, thanks to **reinforcement learning** _____ 17.5/20 (rank 1/18)
- StackOverflow analysis project: using **data mining** techniques _____ 17.0/20 (rank 6/65)
- Course **Theory And Practical Applications Of LLMs**: implement GPT2 from scratch _____ 15.9/20 (rank 4/34)
- Course **Intelligent Agents**: deep-Q learning, reinforce algorithms, multi-agent system _____ 15.4/20 (rank 4/31)
- Course **Bio-Inspired Machine Learning**: MLP, CNN, GNN, RNN, LSTM _____ 13.5/20 (rank 3/32)

Bachelor of Computer Sciences

2020 - 2023

CLAUDE-BERNARD UNIVERSITY LYON 1

Lyon, France

- Course: **Matrix Analysis and Applied Linear Algebra** _____ 17.4/20 (rank 6/45)

Research

Research internship in self-supervised learning for link prediction

feb 2025 - july 2025

LIRIS LAB, ASSOCIATED WITH RÉMY CASABET AND MATHIEU LEFORT

Lyon, France

- A review of the state of the art on **link prediction** and **contrastive learning** methods on **graphs**
- **Implementation and comparison** of graph-based contrastive learning methods for link prediction
- Exploring new avenues, new ideas for **more efficient models**

VIRAL: Vision-grounded Integration for Reward design And Learning

dec 2024 - may 2025

CLAUDE-BERNARD UNIVERSITY LYON 1, ASSOCIATED WITH BRUNO YUN

Lyon, France

- Investigating the use of **multimodal LLMs** (text, image, video) to generate reward functions for RL agents
- **Lead researcher**: subject definition, code implementation, team organisation
- Paper accepted and presented to the LLAIS workshop at **ECAI 2025 conference**

Cardia: Decision support based on hereditary cardiomyopathy data

dec 2023 - feb 2024

LOUIS PRADEL HOSPITAL AND CLAUDE-BERNARD UNIVERSITY LYON 1, ASSOCIATED WITH KHALID BENABDESLEM

Lyon, France

- SotA in **unsupervised multi-view clustering** (ECG, genetics, clinical) and data analysis to **extract patient profiles**

Others Jobs

IT Tutor

nov 2023 - dec 2023

CLAUDE-BERNARD UNIVERSITY LYON 1

Lyon, France

- Teaching students to program with **Jupyter Notebook** around scientific topics

Back-end Python developer internship

may 2023 - july 2023

ZIPZAG, ECAM

Lyon, France

- Development of a machine tool control software: **websocket** communication and **multithread** management

Additional Skills

Programming language

Python, Java, C/C++, Latex, Unix-Shell, Prolog, SQL, Javascript, Rust

Machine learning

Libraries like **Pytorch**, Pandas, Scikit-Learn, Transformers, Networkx...

Language

French (native language), **English (B2 TOEIC)**

Driving

License B, obtained in 2022

Hobbies

Funk musician (*Bassist since 2018*), Sports like hiking and cycling