



Hadrien CRASSOUS

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SUMMARY

I am a Master student at Centrale-Supélec. I am passionate about Data Science and AI. In particular, I aspire to become a machine learning engineer or an AI research scientist. The topics I am the most interested in are Reinforcement Learning and Audio Generation.

EDUCATION

CENTRALE-SUPÉLEC (UNIVERSITY PARIS-SACLAY)

2022-2025(expected)

MSc: ARTIFICIAL INTELLIGENCE & RESEARCH

- 3-year program, with 1 year specialized in AI ("mention Artificial Intelligence" from 2024 to 2025)
- Relevant Courses: Deep Learning, Machine Learning, Reinforcement Learning, Advanced Algorithmics, Natural Language Understanding, Multi-Agent Systems

UNIVERSITY OF TRENTO

Spring Semester 2024

DEEP LEARNING AND ARTIFICIAL INTELLIGENCE

- Courses focused on Deep Learning, Natural Language Understanding, Computer Vision, and Optimization Techniques

UNIVERSITY OF PARIS-SACLAY

2022-2023

DUAL DIPLOME L3 MATHÉMATIQUES

- Courses taken: Algebra, Holomorphic Functions, Differential Calculus, Topology, Ordinary Differential Equations, Probability, Distributions.

CLASSE PRÉPARATOIRE LYCÉE CHATEAUBRIAND

2019-2022

BACHELOR IN MATHS, COMPUTER SCIENCE AND PHYSICS

- Courses focused on Hard sciences, oral exams and scientific thinking.

EXPERIENCE

REASEARCH ENGINEER INTERN (DEEP REINFORCEMENT LEARNING) - DASSAULT SYSTÉMES

2025 (apr-oct)

END-OF STUDIES INTERNSHIP.

- I research deep reinforcement learning methods applied to 3D factory-like environments. My main focus are scene representation and planning.
- Supervised by Pierre CLAROU (3DS) and Tong Zhao (3DS).

INTERNSHIP - ORANGE

2022

INTERNSHIP IN THE BIGGEST FRENCH TELECOMMUNICATIONS COMPANY, HELPING TRACKING THE INVENTORY AND HARDWARE.

M2 RESEARCH PROJECT - COMPUTER SCIENCE

2022-2024

SEQUENCE-TO-SEQUENCE MODELS APPLIED TO A SOFTWARE RETRO-ENGINEERING PROBLEM

- Supervised by researcher Pascale LE GALL (MICS) and Boutheina BANNOUR (CEA) List.

BACHELOR RESEARCH PROJECT - COMPUTER SCIENCE

2022-2024

EXPLORING METHODS FOR SOLVING A GRAPH PROBLEM USING AI TOOLS

- working as a team of 6 students supervised by a research professor.

AI - RELATED WORK

CERTIFICATE [HuggingFace Deep Reinforcement Learning Course](#) (passed with "Excellence" distinction)

BLOG POSTS [Blog Posts](#) meant to make AI tools accessible (5 posts over 4 months)

KAGGLE ACTIVITY Participated in over 10 AI competitions, 2 wins and 3 top 20 finishes.

(tabular data, deep reinforcement learning, deep learning with images,

MEGAZERO I proposed and implemented an extension of AlphaZero to multi-action games.

COMPÉTENCES

FRAMEWORKS & BIBLIOTHÈQUES Python | C++ | PyTorch | CUDA | Unity | Scikit-learn | Gym | JAX | Matplotlib

Numpy | Pandas | huggingface | torchvision | NetworkX

LANGUES **Français:** Natif **Anglais** Niveau B2/C1 **Italien:** Niveau B2

OTHER INTERESTS

- **Music:** Playing guitar and piano, composing music.
- **Chess and Strategy Games.**
- **Past Involvement in clubs:** Organized concerts and chess tournaments. Contributed to music composition training sessions.
- **Past Volunteering:** Tutoring high school students for Lycée de l'Essouriau. Volunteering in music festivals.