

# Hadrien Crassous

PHD STUDENT · RL & ROBOTICS

Inria Lille

✉ hadrien.crassous@student-cs.fr | 🏠 <https://hadrien-cr.github.io/> | 💻 <https://github.com/Hadrien-Cr/>

## Education

---

### Inria, team SCOOOL

Lille, France

PHD CANDIDATE

2025 - 2028

- **Topic:** Collecte et étiquetage de données robotique par apprentissage par renforcement
- **Advisors:** Dr. Riad Akrouf & Dr. Joni Pajarinen

### Centrale-Supélec

Gif-sur-Yvette, France

MSC: ARTIFICIAL INTELLIGENCE AND RESEARCH

Date - Date

- **Relevant Courses:** Deep Learning, Machine Learning, Reinforcement Learning, Advanced Algorithmics, Natural Language Understanding, Multi-Agent Systems
- **L3 Math degree:** Algebra, Holomorphic Functions, Differential Calculus, Topology, Ordinary Differential Equations, Probability, Distributions

### University of Trento

Trento, Italy

SPRING SEMESTER

2024

- **Relevant Courses:** Deep Learning, Natural Language Understanding, Computer Vision, Optimization Techniques

### Lycée Chateaubriand

Rennes, France

CLASSE PRÉPARATOIRE MPSI-MP\*

2019 - 2022

- Courses focused on Sciences (Math, Computer Science, Physics), Oral Exams and Scientific Thinking

## Experience

---

### Research Enginner Intern (Dassault Systèmes)

Vélizy-Villacoublay, France

ADVISORS: PIERRE CLAROU & DR TONG ZHAO

Apr. 2025 - Oct. 2025

- Researching Deep Reinforcement Learning Methods applied to 3D factory environments.

### M2 Research project (Centrale-Supélec)

ADVISORS: DR PASCALE LE GALL (MICS) & DR BOUTHEINA BANNOUR (CEA LIST).

2024-2025

- **Topic:** "Inference of Interaction Models using Transformers"

### Bachelor Research project (Centrale-Supélec)

ADVISOR: MARC-ANTOINE WEISSER (MICS)

2022-2023

- **Topic:** Deep Learning Methods for correcting random graph edits

## Projects

---

**MARL Competition:** I participated to LuxAI Season 3 Kaggle competition (featured at NeurIPS). I lead a group of 3 students. Our solution was based on JAX and PPO.

**Kaggle Activity:** Participated in over 10 AI competitions, 2 wins and 3 top 20 (tabular data, deep rl, computer vision).

**MegaZero:** I proposed and implemented a novel extension of AlphaZero to multi-action games.

**Software:** Contributed to open source projects Pufferlib (RL library) and NetworkX.

## Other Interests

---

**Past Involvement in Clubs:** Organized concerts and tournaments. Contributed to music composition teaching sessions.

**Past Volunteering:** Tutoring high school students for Lycée de l'Essouriau. Volunteering in music festivals.

**Music:** Playing guitar and piano, composing music. **Chess and Strategy Games.**