

# Hadrien Crassous

PHD STUDENT · RL & ROBOTICS

Inria Lille

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## Education

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### Inria, team SCOOl

Lille, France

2025 - 2028

PHD CANDIATE

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

### Centrale-Supélec

Gif-sur-Yvette, France

Date - Date

MSc: ARTIFICIAL INTELLIGENCE AND RESEARCH

- **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

2024

SPRING SEMESTER

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

### Lycée Chateaubriand

Rennes, France

2019 - 2022

CLASSE PRÉPARATOIRE MPSI-MP\*

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

## Experience

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### Research Enginner Intern (Dassault Systèmes)

Vélizy-Villacoublay, France

Apr. 2025 - Oct. 2025

ADVISORS: PIERRE CLAROU & DR TONG ZHAO

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

### M2 Research project (Centrale-Supélec)

2024-2025

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

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

### Bachelor Research project (Centrale-Supélec)

2022-2023

ADVISOR: MARC-ANTOINE WEISSER (MICS)

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

## Projects

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**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

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**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.**