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🐼 [UnMoutonPerdu](#)

Hugo Mouton

Education

Now **M.Eng. in Computer Engineering**, Polytechnique Montréal, Montréal, Canada
Sept 2023

- Recruited on results through ISAE-SUPAERO
- Double degree, master's in computer engineering
- Recipient of the Fondation Georges Besse Excellence Scholarship since 2021

June 2023 **M.Sc. in Aerospace Engineering**, ISAE-Supaero, Toulouse, France
Sept 2021

- Recruited through the Mines-Ponts competitive examination
- General engineering cycle, common scientific core in mathematics, physics, flight and materials mechanics

June 2021 **Preparatory Class**, Lycée Louis Le Grand, Paris, France
Sept 2019

- MPSI then PSI* student
- Admitted to the preparatory class after passing the French science baccalaureate with distinction

Research Experiences

April 2023 **Research Internship**, École polytechnique computer laboratory (LIX), Palaiseau, France
July 2023

- Verification of neural network-based controllers
- Approximation and compression of ReLU-based neural networks
- Propagation of tropical polyhedra through a neural network
- Implementation of a library for modeling tropical polyhedra and study their propagation

Professional Experiences

July 2022 **Software Development Internship**, Boréal SAS, Toulouse, France
August 2022

- Preparation of flight missions
- Drone monitoring during flight
- Development of a flight data analysis tool
- Development of a graphical user interface for presenting results

March 2022 **Computer center console team leader**, ISAE-Supaero, Toulouse, France
March 2023

- Service to computer center users
- Management of the console operator team, maintenance and training
- Supervision of ISAE-SUPAERO's IT equipment in conjunction with teaching staff
- Helping to set up lectures, practical courses and activities linked to the master's program

Honors & Awards

- Finalist in the Prologin 2022 competition
- Finalist in the French Robotics Cup with the ISAE-Supaero team in 2022 and 2023

Activities

February 2022 **ISAE-Supaero Sports Association — Internal Communications Manager**,
ISAE-Supaero, Toulouse, France

February
2023

- Maintaining relations between clubs and the association
- Search for partnerships for sporting events
- Automation of registrations and payments in conjunction with the association
- Website restructuring and maintenance (<https://www.as-isae-supero.com/>)

May 2022 **President of the robotics club**, ISAE-Supaero, Toulouse, France
May 2023

- Find partners to finance the club
- Team management
- Formation of new club members in their respective poles

Skills

- **Programming languages**
Python - C - C++ - Java - R - Scala - Prolog - OCaml - Matlab - HTML/CSS/JavaScript
- **Scientific skills**
Problem solving - Machine Learning - Analytical skills - Data science
- **Soft skills**
Teamwork - Autonomy

Languages

- **French:** Native
- **English:** Fluent
TOEFL: 96/120 (Reading:26, Listening:25, Speaking:20, Writing:24)
- **Spanish:** Academic level