

# LOLA LE BRETON

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🌐 lolalebreton

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M.Sc alumni from Ecole Polytechnique, currently undertaking graduate research in machine learning at MILA – Quebec Artificial Intelligence Institute.

## EDUCATION

Graduate research student

**MILA – Quebec Artificial Intelligence Institute**

📅 2023 - 2025

📍 Montreal, Canada

Graduate research in machine learning under the supervision of Prof. Sarath Chandar.

Computer Science school

**School 42**

📅 2022 - 2023

📍 Paris, France

Computer science and software engineering school with an innovative project-based and peer-to-peer learning approach.

Master of Science | Polytechnicien Cycle

**École Polytechnique**

📅 2019 - 2022

📍 Palaiseau, France

Ecole Polytechnique is the top-ranked science university in France. The curriculum provides the equivalent of a Master of Science. (3.61 GPA)

*Majors:* Computer Science, Applied Mathematics

*Minors:* Biology, Physics, Environmental sciences

Preparatory Classes | MPSI, MP\*

**Lycée Saint-Louis**

📅 2017 - 2019

📍 Paris, France

Two-year undergraduate curriculum in mathematics, physics and computer science to prepare for competitive nationwide entry exams into French scientific schools. (3.95 GPA)

## PROJECTS

Team research on machine learning

**Coordinated by start-up SpaceSense**

📅 September 2020 - June 2021

📍 Paris, France

Machine Learning applied to the treatment and analysis of satellite imagery in order to detect marine plastic pollution.

Research project in statistical physics

**Lycée Saint-Louis**

📅 September 2018 - June 2019

📍 Paris, France

Study of the Brownian motion of micro particles with the goal of providing a precise measure of the Avogadro constant.

## EXPERIENCE

Teaching assistant

**Start-up DataBird | Data analyst bootcamp**

📅 September 2022 - February 2023 📍 Paris, France

Assistant teacher for courses in programming (Python), machine learning and statistics.

R&D engineer

**Green Technology**

📅 April 2022 - August 2022

📍 Paris, France

- Research project using ML to study the coupling of heat pumps and solar panels
- Conception and coding of in-house application for data and project management

Officer | Analysis and operational research division

**French Army headquarters**

📅 September 2019 - April 2020

📍 Paris, France

Mandatory military time as part of Polytechnique's curriculum. Officer training at the academy of Saint-Cyr.

## SOCIETIES

Elected student representative

**Student representative body**

📅 February 2021 - February 2022 📍 Palaiseau, France

In charge of dialogue with school administration on curriculum evolution and students' experiences

## PROGRAMMING

Python

C

C++

Java

R

SQL

Unix

## LANGUAGES

French (native)

English (TOEFL score: 107)

## HOBBIES & INTERESTS

**Sport** : Rugby, Handball, Hiking, Scuba-diving

**Art** : Theatre (formation at Cours Simon)