



# Léry Monnerat

Master of Engineering (ENSTA PARIS) - Master of Science (Applied Mathematics - Optimization)

Spécialization in Applied Mathematics

📅 20/11/2003  
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🔗 lerymonnerat  
🚗 permis B

## Education

Master 2 – Institut Polytechnique de Paris, Saclay

📅 2025 – 2026

Optim�iation. Double degree with the 3rd year at ENSTA Paris.

Master 1 – Institut Polytechnique de Paris, Saclay

📅 2024 – 2025

Applied Mathematics. Double degree with the 2nd year at ENSTA Paris.

Functionnal analysis, spectral theory, Analysis and finite element approximation of PDEs, Probability (Markov chains, discrete time martingales), statistical modeling, Optimization, system control, operation research, Scientific calculation (numerical simulation, high performance computing, numerical linear algebra).

Master of Engineering – ENSTA Paris, Palaiseau

📅 2023 – 2026

France's top 5 ranked school for science and engineering, founding member of the Polytechnic Institute of Paris  
Mathematics, Computer Science, Physics, Economics, Management/Project Management, Law, Languages, Sports.  
Specialization in Applied Mathematics.

Classes préparatoires – Lycée Marcelin Berthelot, Saint-Maur-des-Fossés

📅 2021 – 2023

2-year intensive program to prepare for the nationwide competitive entrance exams to top French engineering schools (first two years of a bachelor degree : Mathematics, Physics-Chemistry, Computer Science, Engineering Science)

Lycée – Lycée Étienne Beuzot, Nemours

📅 2018 – 2021

High school/secondary diplomas and certificates with highest honour.

## Experience

Research internship – Institut de Physique du Globe de Paris

📅 Juin-Août 2025

The aim of this research project was to assess the potential of a new passive seismic imaging technique for the subsurface.

Workman internship – Village potager, Saint Pierre lès Nemours

📅 Juillet 2024

Packaging, order preparation, market gardening.

Citizen engagement

📅 2023 – 2025

- Leading of a robotics course ("Semaine de la Robotique") for secondary school students. 📍 Palaiseau
- Cordées de la réussite : creation and running of scientific and cultural activities for middle school students. 📍 Trappes

## Skills

### Computer science

Bash C/C++ Python Matlab  $\LaTeX$  Linux GIT

### Projects (some)

C Reinforcement learning (Q-learning, Sarsa).  
C++ Traveling Salesman Problem (genetic algorithms).  
Matlab Rayleigh-Bénard Convection (fluid mechanics).  
TIPE<sup>1</sup> Granular media and the urban construction supply chain (mechanics - mathematics)

🔗 lerymonnerat/IN104\_ML  
🔗 gabrielvignon2003/projet-VDC  
🔗 lerymonnerat/MO102  
🔗 lerymonnerat/tipe

<sup>1</sup> Travaux d'Initiative Personnel Encadré.

## Languages

French  
English  
Spanish  
Italian

Native  
C1+  
A2/B1  
A0/A1

## Divers

Sports : competitive practice of ultimate frisbee (French champion in the U14 category).