

# Victor Lemaître

Github  
LinkedIn

Email : victor.lemaitre@dauphine.eu

Mobile : +33 783219298

## EDUCATION

---

### Paris Dauphine University

Paris, France

- *First year of Master in Computer Science and Mathematics (Master I2D)*  
*Expected graduation date for the second year is may 2026*
  - **Relevant Courses:** Machine Learning, Artificial Intelligence (GOFAI), Convex and combinatorial optimization, Game Theory, Decision Theory, Graph Theory

*Aug. 2024 – now*

### Paris Dauphine University

Paris, France

- *BSc Computer Science and Mathematics; Passed with honors*  
*(ranked 14th out of 201 in the first year and 10th out of 39 in the second)*
  - **Relevant Courses:** Data Analysis, Semi-structured Data, Functional programming, Linear Algebra, Probability Theory

*Aug. 2022 – July 2024*

### Uppsala University

Uppsala, Sweden

- *Exchange program in Computer Science and Mathematics; Passed 4 out of 6 classes with highest honors*
  - **Relevant Courses:** Databases system, Differential equations

*Aug. 2023 – Jan. 2024*

## ADDITIONAL EDUCATION

---

### AI safety Sweden, AI safety fundamentals

Uppsala, Sweden

- *Studied technical aspects of AI safety and alignment. Conducted a research distillation project on shard theory.*

*Sept. 2023 - Jan. 2024*

### Andrej Karpathy, Neural Networks: Zero to Hero

*13 hours of youtube videos giving in-depth explanations of pytorch's internals,*

*Feb. 2024 - April 2024*

- *backpropagation and transformer architecture. Reimplemented the multi-head attention layer from simple tensor operations. Used chain of thought to teach a small transformer the addition of two numbers*

## EXPERIENCE

---

### Summer research internship

Paris Dauphine university, France

- *Improved the neural network behind AstraZeneca's retrosynthesis tool Aizynthfinder by generating large amount of synthetic data*
  - **Relevant skills:** TensorFlow, Numpy, Pandas

*May 2024 - Sept. 2024*

## PERSONAL PROJECT

---

- **Interpreting an MLP trained on modular addition** : Analyzed how a one-layer MLP computes modular addition using Fourier transforms. Used PyTorch hooks to investigate hidden layer activations and identified key frequency patterns used by neurons

## PROGRAMMING SKILLS

---

- **Languages** (From most to least proficient): Python, C, Haskell, Java, OCaml, SQL, R
- **Libraries & Frameworks:** Pytorch, Tensorflow, Numpy, Pandas, Matplotlib