

Victor Lemaître

<https://github.com/Victorlemaitre>

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 of my Master's program is may 2026

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)

Aug. 2022 – July 2024

Uppsala university

Uppsala, Sweden

- *Exchange program in Computer Science and Mathematics; Passed 4 out of 6 classes with highest honors*

Aug. 2023 – Jan. 2024

ADDITIONAL EDUCATION

AI safety Sweden, AI safety fundamentals

Uppsala, Sweden

- *Participated in weekly debate over topics in technical AI safety research. Had to conduct a research distillation project and chose 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, 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*

Feb. 2024 - April 2024

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