

Ludovic Arnould

Ph.D Student at Sorbonne Université

ludovic.arnould@sorbonne-universite.fr

Career

- 2020-2023 **Ph.D. in Machine learning - Sorbonne Université, LPSM, Paris**
Working within the department of Statistics under the supervision of Claire Boyer and Erwan Scornet. My Ph.D focuses on studying Neural Networks from an interpretability perspective.
- 2019-2020 **M.S. in Learning and Algorithms (second year) - Sorbonne Université, Paris**
Bi-disciplinary M.S (maths and c.s.) focused on Machine Learning.
- C.s.: Deep Learning with Pytorch (Introduction to main NN architectures), Reinforcement Learning, Databases (SQL, Neo4J).
- Maths: Statistical learning, Concentration inequalities, Geometric inference, Stochastic algorithms, Optimization algorithms, Bayesian inference.
- June-August 2019 **Internship - Computer Science Lab (LIP6), Sorbonne Université, Paris**
Application of DL and ML techniques to temporal data under the supervision of Nicolas Baskiotis.
- 2018-2019 **M.S. in Mathematics (first year) - Sorbonne Université, Paris**
Mathematical M.S. oriented towards Statistics, Probabilities and Functional analysis.
- July- September 2018 **Internship - Ktech Incubator, Shanghai**
Development of the technological services of a start-up incubator: event organisations, establishment of partnerships, prospection of startups, ...
- January- March 2019 **Supply teacher in mathematics - French Highschool, Barcelona**
Teaching mathematics to highschool and middle school students.

Teaching

- 2020-2023
- Probabilities and Statistics- Sorbonne Université**
Students in last year of B.S in mathematics.
- Linear Models- Sorbonne Université**
Students in first year of M.S. at ISUP.

Technical competences

C.S.: Machine learning with Python (Sklearn, Pytorch, Joblib, ...).

Languages: - French (Native) - English (fluent) - Chinese (advanced) - Swahili (intermediate) - Spanish (beginner)

Hobbies and interests

I am very enthusiastic about science, mathematics and computer sciences in general. I read a lot about the new trends in Deep Learning and about the applications of neural networks to e.g. NLP, image processing, health, etc. I also like to explore the amazing possibilities of the Oculus Quest 2 with Unity and C# on my free time.

Machines are not my only area of interest; I've been playing the piano for many years and I am very interested in literature, art history and everything that is helpful to understand the society we live in from history and economics to politics and law studies.