Ludovic Arnould

Ph.D. in Machine Learning

Career-Education

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06 83 36 14 45

2020-2023

2019-2020

June-August 2019

2018-2019

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 was focused on the interactions between Neural Networks and Random Forests.
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, Database (SQL).
-Maths: Statistical learning, Optimization algorithms, Stochastic algorithms, Geometric inference,
Bayesian inference, Concentration inequalities.
bayesian injerence, concentration inequalities.
Internship - Computer Science Lab (LIP6), Sorbonne Université, Paris
Application of DL and ML techniques to temporal data under the supervision of Nicolas Baskiotis.
M.S. in Mathematics (first year) - Sorbonne Université, Paris

July- September 2018

Internship - Ktech Incubator, Shanghai

Development of the technological services of a start-up incubator: organisation of events, establishment of partnerships, prospection of startups, ...

Mathematical M.S. oriented towards Statistics, Probabilities and Functional analysis.

January- March 2019

Supply teacher in mathematics - French Highschool, Barcelona

Teaching mathematics to high school and middle school students.

2020-2023

Teaching

Probability, Statistics and Linear Models - Sorbonne Université, ISUPStudents in last year of B.S in mathematics and first year of M.S. at ISUP.

Publications

- Analyzing the tree-layer structure of Deep Forest, Arnould, Boyer, Scornet, 2021, ICML
- Sparse tree-based initialization for neural networks, Lutz, Arnould, Boyer, Scornet, 2022, ICLR
- Is interpolation benign for Random Forests ?, Arnould, Boyer, Scornet, 2023, AISTATS

Technical skills

C.S.: Deep learning with Python (Pytorch, HuggingFace libraries, sklearn, VSCode, conda, ...)

Languages: - French (Native) - English (fluent) - Chinese (intermediate) - Swahili (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, especially about LLMs and NLP.

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.