

Baptiste Abeles

Machine Learning Engineer (Mines - ENS)

Born in Paris on 03/25/2000.

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Education Awards

PhD of Machine Learning , <i>University Pompeu Fabra (UPF), Barcelona.</i> PhD supervised by Gergely Neu. <i>The PhD research is about proving generalization bounds under non-i.i.d assumption in various settings. It also aims at getting a better understanding of the underlying connection between online learning and generalization.</i>	2023 –
Master's degree MVA (Mathematics, Vision, Learning) , <i>ENS Paris-Saclay.</i> Applied Mathematics for Artificial Intelligence: Deep Learning, Optimization, Computational Statistics, Time Series, Object Recognition, Optimal Transport, Bayesian Machine Learning, Sequential Learning.	2022 – 2023
National Graduate School of Ecole Nationale Supérieure des Mines de Saint-Etienne (EMSE). Data Science, Statistics and Probabilities, Machine Learning, Quantum Physic.	2020 – 2023
Mathematic degree with distinctions , <i>Jean Monnet University, Saint-Étienne.</i> Measure theory, algebra, differential calculus, topology, probabilities and complex analysis.	2020 – 2021
Classes préparatoires , <i>Lycée Fénelon, Paris.</i> Three years of undergraduate studies in mathematics, physics and engineering sciences. Intensive preparation for highly selective entrance exams to French « Grandes Ecoles d'Ingénieurs ».	2017 – 2020
Scientific Baccalaureat with distinctions , <i>Lycée Fénelon, Paris.</i> Equivalence of High School certificate, Specialty Mathematics.	2017

Relevant Experience

Teaching Assistant , <i>University Pompeu Fabra, Barcelona, Spain.</i> Linear Algebra	January 2024 – March 2024
Machine Learning Research Intern , Paris, France. Internship carried out at Sorbonne Université financed by Viking Conseil. <i>Research Topic: Design an algorithm for adaptive power consumption forecasting based on a latent space model representation.</i> Internship supervised by Joseph de Vilmarrest (Viking Conseil CEO) and Olivier Winterberger (Doctor at Sorbonne Université).	April 2023 – September 2023
Machine Learning Research Intern , Buenos Aires, Argentina. Internship carried out at San Martin University. <i>Research Topic: Source separation methods for exoplanet detection.</i> Internship supervised by Rodrigo Diaz and Daniel de Florian.	June 2022 – August 2022
Operator Internship , <i>RATP, Charonne Workshop.</i>	Jan. 2021
Private Mathematics Tutor.	2019 – 2022
JSCPO , Football Coach.	2016 - 2017

Academic projects

PRICE Project: Time Series and Algorithmic Trading , <i>EMSE.</i> <i>Work on the development of an RSI divergence detection algorithm and determination of its quality</i>	Sep. 2021 – Mar 2022
Technical Project: Modeling of hydrogen diffusion and trapping , <i>EMSE.</i> <i>Development of an algorithm for solving kinetic equation differential systems.</i>	Sep. 2021 – Janv 2022
Classes Préparatoires Project (TIPE): Study of braid theory , <i>Lycée Fénelon, Paris.</i> <i>Development of an algorithm to determine if two braid words are isotopic.</i>	2018-2019

Skills

Linguistic

Anglais : C1 Level (TOEIC : 935/990).

Espagnol : C1 Level.

Programming

LaTeX, Python : Good proficiency.

Matlab, Shell Programming and R : Intermediate level.

C et Java : Beginner Level.

Interests

Sports and Music: Football (15 years) regional level. Great fan of sports in general and sports history. Piano (10 years).

Associations: Vice-President of the CARTEL 2022 Association: sports responsible for organizing inter-school Olympiads of Mines.

Others: Chess, Scientific Popularization, Philosophy, Oenology.