Clément Bonnet

Graduate Student in Applied Mathematics and
Machine Learning

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Education

2020–2021 **MSc in Machine Learning**, *École Normale Supérieure*, Paris, France.
Master MVA: Applied Mathematics, Computer Vision and Machine Learning.
- Reinforcement Learning,
- Speech and Natural Language Processing,
- Mathematical Modelling in Neuroscience.

2017–2021 **MSc in Applied Mathematics**, *CentraleSupélec*, Paris, France.
- Advanced Probabilities and Statistics,
- Optimisation,
- Deep Learning and Computer Vision.

2019
(6 months) **Visiting student**, *National University of Singapore*, Singapore.
- Intelligent Systems and Robotics,
- Technology Entrepreneurship,
- Database Design and Tuning.

2015–2017 **Undergraduate courses in Mathematics, Physics and Computer Science**,
Lycée Lazaristes, Lyon, France.
Two-year programme in Mathematics and Physics for competitive entrance to top French
engineering schools called Grandes Écoles.

Work Experience

2020
(6 months) **Machine Learning Engineer**, *Lake Parime*, London, United Kingdom.
- Wrote a research paper on mathematical kernels to optimise High-Performance Computing
  (Berkeley's seven dwarfs).
- Led a Data Science project to model wind turbine production variability (Markov chains).
- Built a Machine Learning strategy model to scale the current business.

2019	**Data Science Engineer**, *Coreso*, Brussels, Belgium.
(6 months)	o Performed several data analyses about commercial and physical exchanges on the European power grid.
	o Created Python scripts to compute long-term capacity for European bidding zones to send to the global market.
	o Built a data pipeline and a Python visualisation framework that enabled operators to monitor data files within the company.
2018	**Data Analyst**, *Nexans*, Rognan, Norway.
(1 month)	Created data analysis scripts for optical fibre optimisation and decision making.

Computer Skills

Computer	Python for advanced OOP and web development, Matlab, Octave, R, Git, Unix, LaTeX, C++ for Python extensions and path planning using TurtleBot Gazebo framework.
Machine L.	Numpy, Scikit-Learn, Pandas.
Deep L.	Pytorch, Gym, Tensorflow.

Languages

English: fluent | **French**: native | **German**: intermediate | **Japanese**: beginner.

Interests

Research Interests	Reinforcement Learning, Meta-Learning, Cognitive Science, Neuroscience. Currently working on adaptive learning and semi-supervised learning for temporal representation of brain signals.
Hobbies	I love cycling, travelling and cinema. I write articles on *Medium*.

Volunteering

2018–2019	**Vice-President**, *Cheer Up CentraleSupélec (Student Charity)*, Paris, France.
	Offered children that suffered from cancer the opportunity to fulfil their dreams and gave them a positive mind regarding their disease.
2017–2019	**IT manager**, *Cheer Up CentraleSupélec (Student Charity)*, Paris, France.
	Managed communication and planned visits to the hospital.