

Clément Bonnet

✉ clement.bonnet16@gmail.com

📄 clementbonnet.com

🌐 clement-bonnet16

📞 clement-bonnet

📁 clement.bonnet16

Research Engineer in Reinforcement Learning

Education

2020–2021 **MSc in Machine Learning**, *École Normale Supérieure*, Paris, France.

Master MVA: Applied Mathematics, Computer Vision and Machine Learning.

- Reinforcement Learning, Sequential Learning, Modelling in Neuroscience
- Computational Statistics and Graphical Models
- Speech and Natural Language Processing,

2017–2021 **MSc in Applied Mathematics**, *CentraleSupélec University*, Paris, France.

Grande École programme, following from two years of intense undergraduate courses.

- Advanced Probabilities, Statistics and Bayesian Machine Learning
- Discrete Inference Learning and Optimisation
- Deep Learning and Computer Vision.

2019 **Visiting student**, *National University of Singapore*, Singapore.

- (6 months)
- Intelligent Systems and Robotics,
 - Technology Entrepreneurship,
 - Database Design and Tuning.

2015–2017 **Undergraduate courses in Mathematics, Physics and Computer Science**, *Prépa Lazaristes*, Lyon, France.

A two-year programme in Mathematics and Physics for competitive entrance to top French engineering schools called Grandes Écoles.

Work Experience

2021 **Research Engineer in Reinforcement Learning**, *InstaDeep*, London, United Kingdom.

- Meta-gradients for reinforcement learning in production
- Research on online self-tuning, meta-learning and meta-parameter diversity

2021 **Research Intern in Reinforcement Learning**, *InstaDeep*, London, United Kingdom.

- (6 months)
- Meta-reinforcement learning
 - Online self-tuning of hyper-parameters
 - Publication at a NeurIPS workshop: <https://arxiv.org/abs/2111.00206>

- 2020 **Machine Learning Intern**, *Lake Parime*, London, United Kingdom.
 (6 months)
 - Led a Data Science project to model wind turbine production variability using Markov chains.
 - Built a Machine Learning strategy model to scale the current business.
 - Made an internal web application.
- 2019 **Data Scientist Intern**, *Coreso*, Brussels, Belgium.
 (6 months)
 - Performed several data analyses about commercial and physical exchanges on the European power grid.
 - Created Python scripts to compute long-term capacity for European bidding zones to send to the global market.
 - Built a data pipeline and a Python visualisation framework that enabled operators to monitor data files within the company.
- 2018 **Data Analyst Intern**, *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, L^AT_EX, C++ for Python extensions.
- ML Jax, Numpy, Scikit-Learn, Pandas.
- DL Jax ecosystem (Haiku, Optax, ...), Acme, Pytorch, Tensorflow.

Languages

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

Interests

- Research Reinforcement Learning, Meta-Learning, Neuroscience.
- Hobbies I love cycling, travelling and cinema.

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.