Mattéo Clémot

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MClemot

Education

2019–2023 **École Normale Supérieure de Lyon**, Lyon, Computer science Department.
Master's degree in fundamental computer science

2019–2020 **Université Claude Bernard – Lyon 1**, Lyon.
Bachelor's degree in mathematics

2018–2019 **École Nationale des Ponts et Chaussées**, Champs-sur-Marne.
First year of engineering school

2016–2018 **Lycée Cordorcet**, Paris.
Preparatory classes: two-year undergraduate intensive course in mathematics and physics, with computer science option

2016 **Baccalauréat scientifique**, Paris.

Internships

Oct.–Dec. 2022 **Research internship**, *Team Dante/Ockham*, LIP, Lyon.
Solving ill-posed inverse problems involving partial differential equations with neural networks.

Feb.–July 2022 **Research internship**, *Team Origami*, LIRIS, Lyon.
Learning the topology of shapes given by point clouds.

Apr.–July 2021 **Research internship**, *Team GAIA*, GIPSA-lab, Grenoble.
Surface reconstruction with Delaunay complexes.

June–July 2020 **Research internship**, *Team Tropical*, INRIA Saclay / École polytechnique, Palaiseau.
Links between tropical linear programming, mean payoff games and parity games.

Teaching experience

2020–2022 **Mathematics examiner in preparatory classes**, *Lycée La Martinière Monplaisir*, Lyon.
Weekly oral exams (called *Colles*) in mathematics in first year of scientific preparatory classes (*Classes Préparatoires aux Grandes Écoles*: two-year undergraduate intensive course in mathematics and physics).

2019–2020 **Volunteer private tutoring**, *ENSeigner*, Lyon.
Volunteer private tutoring in mathematics and physics.

2018–2019 **Private mathematics tutoring**, *MyMentor*, Paris.
Private tutoring in mathematics.

Languages

French Native language
English C1 (Cambridge English Advanced)
German Basic

Skills

Programming C++, Python, C, OCaml, LaTeX
Libraries PyTorch, CGAL, Gudhi

Interests

Sports Climbing, hiking, trail running...
Music Learning drums and guitar
Misc. Contributor on the french Wikipedia

Courses

Computer science Master 1	Compilers and program analysis, Computational complexity, Computational geometry and digital images, Cryptography and security, Data bases and data mining, Information theory, Machine learning, Optimization and approximation, Parallel and distributed algorithms and programs, Performance evaluation and networks
Computer science Master 2	Concentration of measure in probability and large-scale machine learning, Learning for Graphics & Graphics for Learning, Interactive and Non-Interactive Proofs in Complexity and Cryptography, Post-quantum cryptography, Complex networks, Graph Decompositions, The structure of graphs of high chromatic number, Mathematical aspects of automata theory
Misc.	Statistical physics, introduction course to ecology