Louis MAESTRATI

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RESEARCH WORK	
May 2020 - Aug 2020	Oxford Mathematical Institute, Visiting Researcher
	Supervised by Prof. Jared Tanner Project on Regularization for Deep Learning: generalization and robustness
Feb 2019 - Aug 2019	MILA (Montreal Institute of Learning Algorithms), Visiting Researcher
	Supervised by Prof. Jean Michel Sellier and Prof. Yoshua Bengio . Applying Deep learning models to Quantum Physics problems
	Worked on Data-Driven Approach to Encoding and Decoding 3-D Crystal Structures , published on arXiv:1909.00949
May 2018 - Aug 2018	CNRS, Laboratoire de l'Accélérateur Linéaire, Visiting Researcher
	Handwritten Image to Latex Generation Project, supervised by Dr. Balázs Kégl Working on an attention based model, using an Encoder-Decoder
2018	Project (Deep Learning) Creating a computer program to defeat a human at the Avalam Game supervised by the researcher Pascal Yim
2016 - 2017	Project linking Economics of natural resources and Optimal Control Worked on the mathematical tools and fundamental theorems of the theory of Optimal Control in order to plan the maximization of natural limited resources extraction.
2017 - 2018	Project in Algorithmic Applied genetic algorithms to provide approximate solutions to Traveling Salesman NP – Complete Problem
STUDIES	
2020-2021	MSc in Machine Learning « MVA » Mathématiques Vision Apprentissage (ENS Paris-Saclay)
	Relevant Coursework: Convex Optimization, Large-Scale Optimization, Biostatistics, Deep Learning for Medical Imaging, Object Recognition, Deep Learning, Kernel Methods, Probabilistic Graphical Models, Computational Statistics
2016 - 2020	Centrale Lille School: MSc in Applied Mathematics
	Speciality in Machine Learning (Master 2) under the supervision of Prof. Pierre Chainais Relevant Coursework: Machine Learning, Markov Chains, Sequential Learning, Deep Learning, Statistics, Python and Java Programming, Optimization Sciences,
2019 - 2020	University of Lille: MSc in Applied Mathematics
Aug 2018 - Dec 2018	University of California at Berkeley, Visiting student 4-month program at Sutardja Center for Entrepreneurship and Technology
2013 - 2016	Lycée Louis-le-Grand Classes Préparatoires aux Grandes Écoles, MPSI/MP Info

LANGUAGES & SKILLS

French: NativeEnglish: Fluent

• **German:** Intermediate

• Software: CATIA

 Programming: Python (TensorFlow, Pytorch), Solidity, Java, OCaml, Matlab