

EDUCATION

Université Paris-Saclay – <i>Masters in Mathematics, Vision and Learning (« MVA »)</i>	Paris-Saclay, France
École des Ponts ParisTech – <i>Double Degree: Mathematics and Computer Science Engineer</i>	Sep. 2020
Machine learning, computer vision, convex optimization, topological data analysis, etc. + business administration, law, etc.	
École polytechnique – <i>Leading engineering university of France</i>	Palaiseau, France
Received « Outstanding investment award » and « Outstanding Leadership award »	Aug. 2017
Relevant coursework : Mathematics, Applied Mathematics, Computer Science, Biology, Neuroscience	
3° year : MSc&T in Artificial Intelligence & Advanced Visual Computing (first year equivalent)	
Preparatory class Lycée Stanislas – <i>Equivalent B.S Physics and Chemistry</i>	Paris, France
Intensive preparation for the entrance exams to top French Universities - Ranked 4° at the entrance exams	Aug. 2015 - Jul. 2017
Lycée Stanislas – <i>Baccalauréat mention TB: equivalent to highest honors in high school final exams</i>	Paris, France
Price at the Paris Mathematics « Olympiades » (high level mathematics competition)	2015

WORK EXPERIENCE

Dassault Systèmes – <i>Research intern in the Bio-Founded Modeling team</i>	3DS Campus - Vélizy, France
World leader company in 3D design & engineering software	Apr. 2020 – Aug. 2020
<ul style="list-style-type: none"> Explored and developed methods for the generation and learning of virtual soft-robots in Taichi (Python) Adressed topics: CPPN, GA (NEAT, CMA-ES), topology optimization, RL, differentiable physics, etc. 	
Incepto Medical – <i>Software engineer intern</i>	Station F - Paris, France
Start-up developing and gathering AI applications for medical imaging	Jul. 2019 – Sep. 2019
<ul style="list-style-type: none"> Developed a tool for analyzing the results of deep learning algorithms (AngularJS) Discussed with radiologists and data scientists to establish the needs of the tool 	
Military Experience: Prytanée National Militaire – <i>Head of a military Section of Students</i>	La Flèche, France
School and preparatory class for future officers in the French army	Oct. 2017 - Apr. 2018
<ul style="list-style-type: none"> Led 2 sections of 25 students and conducted Physics and Chemistry courses and exercises 	

RESEARCH EXPERIENCE & PROJECTS

3rd Year Projects (CS) – Machine Learning Computer Vision Shape analysis Reinforcement Learning	École polytechnique
Kaggle challenge : link prediction on a webgraph (ranked 2°/54) Pawns and grid detection on draughts game with OpenCV	2019
Image vectorization through direct optimization of bezigons Autonomous agents on Gym car-racing environment	
Neural Representation of Temporal Sequences (Neurosciences) – <i>Scientific group project with NeuroSpin</i>	École polytechnique
Understand how the brain encodes temporal sequences and patterns	2018-2019
<ul style="list-style-type: none"> Conceived a grammar encoding of sequences, developed a smartphone app experiment, analyzed the results Our team was selected among the 10 best projects of the year (over 100 projects) 	

LANGUAGES & COMPUTER SKILLS

Languages	French, Spanish (Working proficiency), Anglais (Working proficiency: TOEFL 110/120 TOEIC 970/990)
Programming	Python (Pytorch, Tensorflow, OpenCV, Scikit-learn) Javascript (React Native, AngularJS, ThreeJS, D3) C++ (OpenGL, OpenCV, Libigl) Java, HTML, CSS, SQL

ADDITIONAL INFORMATION & EXTRACURRICULAR ACTIVITIES

Sport	Tennis: Elected representative of Polytechnique's tennis section, Running
Social Action	Co-president of a school organization that organizes a humanitarian trip to Tahiti One and a half month summer humanitarian internship in Papeete at FACE Polynesia
School Clubs	Vice-President of the graphic design organization of Polytechnique Organizer of a discovery trip to state-of-the-art Israeli start-ups, universities and R&D centers