

EDUCATION

Université Paris-Saclay – <i>Master of Science in Mathematics, Vision and Learning (« MVA »)</i>	Paris-Saclay, France
École des Ponts ParisTech – <i>Double Degree: Master of Engineering (Mathematics and Computer Science)</i>	Sep. 2020
Relevant coursework: Machine & Deep learning, Computer vision, Optimization, Optimal transport, RL, Kernel methods, Graphs in ML, etc.	
École polytechnique – <i>Master of Engineering (« Cycle ingénieur polytechnicien »)</i>	Palaiseau, France
Awards: « Outstanding Investment award » and « Outstanding Leadership award »	Aug. 2017- Sep. 2020
« Research Internship award » for my 3 rd year internship at Dassault Systèmes	
Relevant coursework (1 st and 2 nd year): Mathematics, Applied Mathematics, Computer Science (Algorithms & Data structures), Biology	
Major (3 rd year) on Artificial Intelligence & Visual Computing (ML, RL, Statistics, Data visualization, TDA, etc.) – Major GPA: 3.99	
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>Highest honors in high school final exams</i>	Paris, France
Award at the Paris Mathematics « Olympiades » (high level mathematics competition)	2015

WORK EXPERIENCE

Dassault Systèmes – <i>Research intern in the generative design 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 design generation and learning of autonomous virtual-soft-robots using Taichi (Python)Topics covered: CPPN, GA (NEAT, CMA-ES), topology optimization, reinforcement learning, 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 using AngularJS to analyze annotations and results of deep learning algorithmsDiscussed 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	

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 using C++	2019
Image vectorization through direct optimization of bezigons using C++ Autonomous agents on Gym car-racing using Python	
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, used ReactJS to develop a smartphone app experiment, analyzed the resultsOur team was selected among the 10 best projects of the year (over more than 100 projects)	

LANGUAGES & COMPUTER SKILLS

Languages	French, Spanish (Working proficiency), English (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