

Education

Imperial College London

2019-2020

MSc in Computing : Artificial Intelligence and Machine Learning

Reinforcement Learning, Computer Vision, Mathematics for Machine Learning, Privacy Engineering, Natural Language Processing, Distributed Ledgers

École Polytechnique

2016-2019

One of France's top ranking schools for science and engineering

MSc in Applied Mathematics and Computer Science.

Statistics, Probability, Complex Analysis, Differential Calculus, Random Models, Advanced algorithmic

Paris Sciences & Lettres (PSL)

2014-2016

Best ranked University in France according to Times Higher Education 2020.

Bachelor of Sciences, majoring in Mathematics, awarded with highest honours.

Academic Projects

AI in Complete Information Board Games, reinforcement learning project in Python. Feb 2019

- Designing a learning environment modelling any zero sum game with complete information.
- Agent learning based on Convolutional Neural Network trained with Monte Carlo Tree Search.

Harmonic Coordinates for Character Articulation, digital representation project in Java

- Creation of 3D mesh objects; Scan Conversion of continuous 3D object in voxels.
- Animation of a cage-controlled character by interpolating the deformation with Laplace equation

Internship experience

EOS Imaging, Machine Learning Research Intern, Montreal

Apr-Sep 2019

- Researched improvement on algorithm to automatically generate 3D meshes from biplanar radio of vertebrae
- Developed a CNN and a Statistical Shape Model to locally adjust vertebrae on size, shape and orientation.

Ippon Technologies USA, Web development Intern, Richmond (Virginia)

Summer 2018

- Developed a microservice architecture with Angular & Spring technologies.
- Cloud hosting through DevOps tools like Jenkins and Amazon Web Service to interconnect an Alexa App.

Passerelles Numériques Cambodia, Math & Logic Trainer, Phnom Penh

Oct '16 – Apr '17

- Designed the new 'Math for Web Programming' curriculum.
- Taught the curriculum to two classes of 25 young adults

Skills

- **Programming:** Python (TensorFlow, PyTorch, Pandas), Java, JavaScript, HTML, CSS, C++
- **Languages:** French (native), English (fluent), Spanish (limited working proficiency)

Outside activities

Associative :

- Former Cellar Master of the École Polytechnique, participating in nationwide oenology competitions.
- Founder of the X Botanical Garden in Palaiseau: led the construction of a 300 m² pavilion for Vertical Farming (30k€, 150 pax)

Sport :

- Cycling everywhere: Never used public transportation in London, come rain or shine
- Competed in Tennis and Football for 6 years.
- Ecole Polytechnique Volleyball team : competed at French university championship.

Board & Card Games:

- Diligent Player of *The Resistance*: hardened resistant, I am still working on my spy persona.
- Poker Player : competed in nationwide tournaments.