

📁 EXPERIENCE

June 2020 December 2020	Research Engineer Intern, ÉCOLE NORMALE SUPÉRIEURE - INRIA, CoML Team <ul style="list-style-type: none">➢ I implemented speech features extraction algorithms in <i>shennong</i>, a toolbox based on Kaldi in development in the Cognitive Machine Learning team. Supervised by Emmanuel Dupoux.➢ Vocal tract length normalization, a speech normalization technique aiming to compensate for the fact that speakers have vocal tracts of different sizes, by warping the frequency-axis of the spectra of the speaker by a learned factor.➢ A pitch detection algorithm based on a deep convolutional neural network operating directly on the time-domain waveform input. <div>Speech Processing Machine Learning Deep Learning Kaldi Pykaldi Keras</div>
November 2019 August 2020	Student facilitator, GOOGLE, Explore Machine Learning program <ul style="list-style-type: none">➢ Organize and facilitate Explore Machine Learning Workshops at my campus.➢ There are 3 tracks of Machine Learning Content (Beginner, Intermediate, Advanced) and the Workshops are intended for around 50 students at a time.➢ Share feedback and best practices with the Explore ML Team at Google and with the other facilitators. <div>Deep Learning Keras Tensorflow</div>

🎓 EDUCATION

2018 2022	Master's degree, Applied Mathematics and Computer Science, ÉCOLE DES PONTS PARISTECH <ul style="list-style-type: none">➢ Computer Science, Machine Learning, Computer Vision, Statistics and Data Analysis, Optimization, Spectral Analysis, Operational Research.
2016 2018	Preparatory classes, LYCÉE MONTAIGNE <ul style="list-style-type: none">➢ Preparatory classes for the highly competitive entrance exams to the <i>Grandes Écoles</i>. Intensive preparation in Maths and Physics.

📋 SKILLS

Languages	English : proficient, C2, TOEIC score : 975/990; French : native; Spanish : conversational, B2
Programming / Web	Python, C / C++, bash, R, OCaml, HTML / CSS, JavaScript
Machine Learning	Tensorflow, Keras, scikit-learn, PyTorch

🌐 VOLUNTARY WORK

February 2019 February 2020	Vice-president in charge of Social Open-mindedness, DÉVELOP'PONTS, École des Ponts ParisTech <ul style="list-style-type: none">➢ I organized voluntary tutoring sessions for around 80 pupils between 11 and 17 years old from local schools, to make them discover science in a fun way; and I organized voluntary homework help sessions for high-school pupils.➢ I prepared experiments with our team of 5 members among the organization and, as Vice-president, I planned museum visits and managed relationships between Dévelop'pontos and the École des Ponts.
September 2018 June 2019	Tutor, DÉVELOP'PONTS, École des Ponts ParisTech <ul style="list-style-type: none">➢ I conducted the tutoring sessions with other students, in addition to preparing them.➢ Chemistry and physics experiments, 3D printing, introduction to programming, Arduino projects.

💻 PROJECTS

Movie genre classification based on poster images with DNN
Tetris AI with a genetic algorithm
Schedule maker website
Nonlinear model reduction applied to conservative PDEs

Keras Tensorflow scikit-learn OpenCV gcloud

C++

Angular Python Flask HTML/CSS SQL

Python cvxopt