

## 🎓 Education



### EPITA / CTI

📍 Le Kremlin-Bicêtre 📅 2015-2020

Computer Science engineering school. Specialization in image processing and machine learning.

Experience in raytracing, distributed computing, GPU computing, medical imaging, deep learning, real-time graphics, signal processing, algorithmic complexity, scientific Python, etc.



### LRDE

💻 Common Lisp 📍 Le Kremlin-Bicêtre 📅 2017-2020

EPITA's research and development laboratory. Second specialisation in research in computer science and a project supervised by laboratory's full-time researchers.

## 📖 Publications



### European Lisp Symposium 2019

💻 Common Lisp 📖 In proceedings 📅 April 1, 2019

"Implementing Baker's SUBTYPEP Decision Procedure", based on my research work at LRDE. Presentation of an alternative implementation for SUBTYPEP, a standard Common Lisp predicate. Involves type theory, type representation and performance concerns.

## 👤 Experience



### Satellite image processing internship at Airbus Defence & Space

💻 C++ 📍 Sophia Antipolis 📅 June-September 2020

Implementation and improvement of a cloud altitude estimation method. Based on stereovision by using the physical gap between optic sensors on PLEIADES satellites. Involves stereocorrelation, epipolar geometry, Digital Elevation Models, image processing and denoising methods, prototyping with Python, etc.



### Teaching assistant C • Unix • C++ • Java • SQL

📍 Le Kremlin-Bicêtre 📅 January-December 2019

Teaching assistant for third-year EPITA students. Responsible for tutorials, workshops and school projects in several languages and technologies.



### Software development internship at BeSport

💻 OCaml 📍 Paris 📅 September-December, 2018

Modernization and deployment of a static website generator written in OCaml. Currently used to generate the website *ocsigen.org* holding the documentation of the Ocsigen project.

## 🛠 Skills

C++

Python

C

C# .NET

Java

Common Lisp

Clojure(Script)

OCaml

LaTeX

Web

Image Processing

Image Synthesis

Machine Learning

Unity

Docker

Linux

macOS

## ✂ Some selected projects



### Ship classification model

💻 Python 📖 Keras

Ship classification model based on Xception using Keras.

XGBoost

### Melanoma detection model

💻 Python 📖 xgboost 📖 scikit-image

Automatic melanoma detection method written in Python. Uses scikit-learn and the XGBoost model.