

Christophe Marabotto

AI Research Engineer

✉ christophe.marabotto@irt-saintexupery.com

📧 marabotto.fr

in [christophe-marabotto](#)



Education

- 2018–2021 **Master of Science (MSc)**, *EPITA, specialized in Data Science and Artificial Intelligence (SCIA)*, Paris, France.
Main subjects: Mathematics, Algorithmics and Data Science.
- 2016–2018 **Preparatory Classes (PCSI/PSI)**, *Ly-cée Alphonse Daudet*, Nîmes, France.
Main subjects: Mathematics, Physics and Engineering Sciences.

Experience

- 2021-Present **IRT Saint Exupéry, Sophia Antipolis, France, AI Research Engineer.**
RAPTOR: Development and deployment of Deep Learning models for non-cooperative spacecraft rendezvous missions (Pose Estimation).
Confiance.ai (Grand Défi "Securing, certifying and enhancing the reliability of systems based on artificial intelligence"): Determine the optimal implementation of various Deep Learning models on multiple embedded platforms.
Certified First Aid at Work (SST).
- 2021 **Airbus Defence and Space, Sophia Antipolis, France, Data Scientist**, End-of-studies Internship (6 months).
Semantic segmentation of high-resolution satellite images using Deep Learning with an Agile team.
- 2020-2021 **Ipsos Santé, Paris, France**, End-of-study project.
Unsupervised clustering of medical reports using Topic Modelling techniques with a team of 4.
- 2019-2020 **Hexaglobe, Paris, France, Data Scientist**, Internship (5 months).
Anomaly detection using Deep Learning for a streaming service for both marketing analysis and breakdown prediction using Keras, Kafka and Google Cloud Platform.

Personal Projects

- 2020 **Image classification**, *Deep Learning for Pneumonia Detection using Chest X-Ray Images with Convolutional Neural Networks (CNNs)*.
- 2020 **Electronics**, *Design and assembly of an FPV Racing Drone using Betaflight Open Source Flight Controller Firmware*.

Languages

- French Native
English Full professional proficiency
Spanish Professional working proficiency

Technical skills

- Maths Numerical Optimization, Statistics, Image Processing, Signal Processing
- Programming Python, C++, C, Java, CUDA, Scala, Shell Scripting, \LaTeX
- Machine Learning PyTorch, Tensorflow/Keras, Scikit-Learn, Xilinx Vitis AI
- Hardware Xilinx Kria KV260 (MPSoC), F405 MK2 Flight Controller, Arduino, Raspberry Pi
- Tools Pandas, OpenCV, Matplotlib/Plotly, Valgrind, QGIS, Docker, gRPC, Tableau, Flask, Git, Office
- OS Linux, Mac OS, Windows
- Cloud Computing Google Cloud Platform, Amazon Web Services, Microsoft Azure

Others

- Sports Martial Arts (Ju-jitsu, Systema and Sanda)
- Making FPV Racing Drone and 3D printing
- Art Ableton, Adobe Lightroom, DaVinci Resolve, Blender