

# Victor Gaya

## Research engineer | Deep learning & Radar satellite imagery



### Contact

Born on 18/12/1998  
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### Languages

French - Native Language  
 English - Fluent (TOEIC C1, 2022)

### Technical Skills

Python, PyTorch, Git, Matlab, C++  
 Jupyter Notebook  
 LaTeX, Word  
 MS Office

### Involvements

Created a drone association at CEA

Organisation of concerts - Technical manager of an electronic music association

Former guitarist in a music band

Former president of an association organising student trips

Former responsible of the school's annual Gala

### Other Interests

Music production  
 Tennis  
 Mountaineering  
 Climbing

## WORK EXPERIENCE

Dec. 2022 -  
Today



**Junior researcher;  
AI & aerospace  
CEA**

Arpajon, France

*Research center*

- PhD research focused on **Synthetic Aperture Radar (SAR)** and **deep learning networks**, especially in the field of **interferometry** for **3D reconstruction** in various **industrial applications**.
- Contributed through **data fusion**, with emphasis on **auto-supervised learning models**.
- Approaches grounded in **statistical modeling** of SAR data **distributions**.
- Presented results at **international conferences** (**oral** and **poster** formats).

Mar. 2022 -  
Sept. 2022



**Machine Learning intern  
CNES**

Toulouse, France

*French Aerospace Agency*

- Implemented a **user feedback system** on a machine learning model for the **detection of anomalies** in military satellite operations.
- Improved the **AI model** deployed on **operational satellite missions**.

May 2021 -  
Aug. 2021



**Data Science intern  
KORNER (KLANIK)**

Marseille, France

*Consulting in data*

- Construction of a **neural network** to detect **Asian hornets and bees** through a **video stream**.
- The **AI model** is now used to build **Asian hornet traps** in France.

## EDUCATION

2022 -  
Today



**PhD Degree  
Institut Polytechnique de Paris  
Télécom Paris**

Palaiseau, France

Worked on deep learning methods to improve SAR satellite images, especially regarding data-fusion (optical and SAR) and interferometry.

2016 - 2022



**Engineering - Master Degree  
JUNIA  
ISEN Lille**

Lille, France

Master specialized in AI technology. Music and technology option.

2023



**Summer school  
Genoa University  
Genoa University**

Genoa, Italy

Machine learning and computer vision summer school certificate at Genoa University.