

# Francesco Bosso

Rome, Italy

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## Experience

### AI Research Engineer

Sep 2023 - Present

*Leonardo - Aerospace, Defense and Security, Rome, Italy*

Engaged at Leonardo's AI Lab, focusing on applying AI methods in the Aerospace and Defense sector. My contributions include developing various models for the Cognitive Radar domain. My research line involves audio, signal, and time series analysis for the *Feature Electronics and Sensing* division

### AI Researcher - Unit JRC E.2

Feb 2023 - Feb 2024

*European Commission, Ispra, Italy*

Support to Unit JRC E.2, Technologies for Space, Security, and Connectivity. Application of DL methods in the context of the European Network for Critical Entities Resilience (ENCER) project to address Hybrid Threats. My contributions involved utilizing Natural Language Processing (NLP) techniques, such as Large Language Models (LLMs) and Named Entity Recognition (NER), to create text processing pipelines for location intelligence to detect potential hybrid threats.

### GeoAI Data Research Intern

Sep 2022 - Feb 2023

*UNESCO IHE Delft, Delft, Netherlands*

Contribution to the CLimate INTelligence (CLINT) project. The project's focus is on developing an AI framework for processing climatic big data to detect and attribute extreme events. My role involved applying statistical methods for feature selection and using Machine Learning algorithms (e.g., ELM, NN, and CNN) to predict extreme drought events. This research is pending publication and was presented at the European Geosciences Union (EGU) General Assembly 2023. ([Abstract](#))

### Geospatial Data Engineer

Mar 2022 - Sep 2022

*Italian Ministry for the Environment, Rome, Italy*

Development of the Italian Integrated Geospatial Information Framework (IGIF) in alignment with the United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM) guidelines. My responsibilities included conducting Geospatial Information Systems analysis, managing governmental-level relationships, and conveying the IGIF concept to governmental agencies. Additionally, a proof of concept for IGIF's development approach was presented to the head of the technical secretary of the Minister, Dr. Tomellini Renzo.

## Education

### Geoinformatics Engineering - M.Sc. [ENG]

2020 - 2022

*Politecnico di Milano, Milan, Italy*

Grade: 110 cum Laude

## Skills

**AI-Related Skills:** Artificial Intelligence, Machine Learning, NLP, Uncertainty in AI, Soft Computing

**Space data-Related Skills:** Optical imaging, Radar imaging, GNSS

**IT-Related Skills:** Linux, Python, GIT, SQL, SLURM, JavaScript, TensorFlow, PyTorch

**AI Specializations:** AI4Climate, AI4Security, AI4Defence, AI4Space

## Languages

Italian: Mother tongue   English: C1   Spanish: B1