### Ambroise **Renaud** Data Scientist

- 🛿 +33 6 46 42 12 11 🛛 @ ambroise.renaud@gmail.com 🛛 C ambroise-renaud.fr
- የ Mandelieu-La-Napoule (06210), France 🛛 🚑 Mobility : PACA area / Full-remote
- i Born in 1997 in Nice, France



Specialized in computer science and data science, I enjoy working on solving complex industrial challenges in sensitive contexts. With strong skills in data analysis and modeling, acquired through various internships, lab work, contracts, and my PhD, I am seeking a position as a Data Scientist/Engineer or as a Modeling and Simulation Engineer in the industry/telecom/defense sectors starting in December 2024.

#### EDUCATION

2021 - 2025	Mines Paris - PSL, Sophia-Antipolis, France
	PhD Candidate - AIS Propagation Modeling using Machine Learning
2019 - 2020	EPFL, Lausanne, Switzerland
	Academic Exchange Year - Data Science
2017 - 2021	ENSISA, Mulhouse, France
	Engineering Degree - Specialization in Computer Science and Networks

## WORK EXPERIENCE

December 2024 December 2021	<ul> <li>Mines Paris - PSL (CRC)</li> <li>PHD CANDIDATE (FIXED-TERM CONTRACT, 3 YEARS), Sophia-Antipolis, France</li> <li>Modeling and characterization of ship radio-frequency emissions using AI and verifying consistency with transmitted and received data.</li> <li>State-of-the-art research and technology watch : VHF propagation, propagation phenomena, VHF</li> </ul>
	<ul> <li>wave propagation modeling using AI.</li> <li>&gt; Data collection and storage : design, sizing, and deployment of a data acquisition, transformation, storage, and monitoring pipeline for ship data.</li> <li>&gt; Al based modeling - modeling - afthe any important and propagation of )//// - any isotrant.</li> </ul>
September 2018 June 2018	<ul> <li>&gt; AI-based modeling : modeling of the environment and propagation of VHF emissions.</li> <li>&gt; Implementation : development, implementation, and evaluation of the proposed approach.</li> <li>DATA ENGINEERING INTERN (INTERSHIP, 2 MONTHS), Sophia-Antipolis, France</li> <li>Deployment of a data acquisition station and a maritime data (AIS) storage system.</li> </ul>
November 2021	Naval Group (CEMIS) Data Scientist (Fixed-Term Contract, 9 months), Ollioules, France
March 2021	Set up a process for ingesting, storing, and transforming data, and utilized semantic web technologies and ontologies for maritime situational awareness in strategic and tactical operations for the H2020 EFFECTOR project.
January 2021 July 2020	<b>DATA SCIENTIST INTERN (INTERSHIP, 6 MONTHS)</b> , Ollioules, France Optimization of artificial intelligence algorithms for the integrity of defense naval systems.
September 2019 June 2019	NATO Science and Technology Organization (CMRE) RESEARCH INTERN (INTERSHIP, 3 MONTHS), La Spezia, Italy Machine learning for detecting suspicious behavior of ships at sea.

# 📰 Technical Skills

Data Science	Machine Learning (Scikit-learn), Deep Learning (PyTorch, PyTorch Geometric, Keras), Array Ma- nipulation (Numpy, Pandas, Xarray), Data Visualization (Matplotlib, Seaborn, QGIS)
Data Engineering	Relational and Time-Series Database Management (PostgreSQL, TimescaleDB), Distributed Data Processing (Apache Kafka, Apache NiFi, Apache Spark/PySpark), Data Search and Visua- lization (ELK Stack), RDF Query Systems (SPARQL, Ontop)
Software Engineering	Programming (Python, C++), Version Control (Git), Unit/Integration Testing (Unittest, JUnit), Continuous Integration (Jenkins), Project Management (Jira)
Radio Wave Propagation	Implementation of Propagation Models (ITM-ITS, ITU-R, PE), Graph-based Propagation Mode- ling, Data-driven Modeling, Tropospheric Propagation Modeling

### ANGUAGES

FrenchNative languageEnglishTOEIC 960/990 - C1 Level

## GENERAL SKILLS

Teamwork	Adaptability
Technology Watch	Project Management