

Florent FOREST

PhD student | ISAE-SUPAERO Engineer

Data Science & Machine Learning

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📍 19, rue des Alouettes
91540 Mennecy, France

○ Ph.D. in Computer Science (CIFRE contract)

January 2018 – present

LIPN (Université Paris 13) – Safran Aircraft Engines

Subject : scalable clustering and visualization algorithms (unsupervised learning) with applications in the aerospace industry.

🏢 EXPERIENCES

○ AIRBUS R&T

Toulouse, 2017 | 6-months final internship

Deep learning for natural language models

Exploring and applying deep learning-based natural language processing techniques on aeronautical data.

○ CNES (French Space Center)

Toulouse, 2016 | 6-months internship

Attitude and Orbit Control System Intern -

Development of AOCS simulation tools on Matlab/Simulink, in order to analyze end-of-life maneuvers on the CoRoT satellite (PROTEUS family, developed by CNES).

○ IRAP (Astrophysics and Planetology Research Lab)

Toulouse, 2015 | 4-months internship

Development of an open-source C++/Python library and a toolbox for scientific analysis of space gamma-ray data.

✚ Publication in the Astronomy & Astrophysics journal.

○ ONERA (the French Aerospace Lab)

Toulouse, 2014 | 1-month internship

Integration of a real-time software (developed at ONERA) on embedded Linux systems.

📖 EDUCATION

○ ISAE-SUPAERO Engineering School

Toulouse, 2013-2017

• Data Science

- Machine Learning, Deep learning
- Statistics
- Data mining and data visualization
- Reinforcement learning
- Optimisation
- Databases, Big Data tools and concepts

✚ **Practical skills** through Projects, Hackathon, and Kaggle competitions

✚ **Engineering Project** (Liebherr Aerospace SAS)
Anomaly Detection in aircraft air system test data.

• Space Systems Engineering

Optimisation / Satellite architecture / Missions / Outer space environment

○ Technische Universität Berlin

Berlin, 2015-2016 | Erasmus semester

• Master semester

Rocket and satellite architecture / Space project management / Electronics / Mission design / Propulsion

○ Lycée Janson-de-Sailly

Paris, 2011-2013

Preparatory courses for french engineering schools
Mathematics, Physics, Computer Science

🚩 LANGUAGE SKILLS

French	Native	English	Fluent (TOEFL 650/677)
German	Fluent	Spanish, Chinese	Beginner level

📈 IT SKILLS

OS	GNU/Linux, Windows	Software	Matlab/Simulink, Office, Project, git, LaTeX, Hadoop
Programming	C, C++, Python, Scala, SQL	Libraries	numpy, pandas, scikit-learn, Apache Spark, Tensorflow, Keras

🌐 INTERESTED IN...

Classical Music	12 years Piano studies, international academies and chamber music
Sports	Tennis, Running, Climbing at Supaero Mountain Club
Data science	Kaggle competitions