

CONTACT

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I am currently a first year PhD student working on Generative Models applied to Remote Sensing at CESBIO and ISAE-SUPAERO under the supervision of [Mathieu Fauvel](#) and [Thomas Oberlin](#). My current research work is in partnership with [RELEO](#) project.

WORK EXPERIENCE

RESEARCH ENGINEER IN AI APPLIED TO PROBABILISTIC WEATHER FORECASTING

CNRM, Météo France, Toulouse (France) – May 2024 to September 2025

- Contribution to European project Destination Earth
- Development of Generative ML techniques to increase the ensemble size
- Comparison between StyleGAN and Diffusion Model
- Extreme event sampling representation
- Regular Scientific Monitoring on the research field
- Supervision of Master Student
- Work on documentation and scientific report.

RESEARCH ENGINEER IN AI APPLIED TO ROBOTIC - [ROBOTLEARN TEAM](#)

INRIA, Grenoble (France) – March 2023 – April 2024

- Development of Deep Reinforcement Learning (DRL) approach for robot navigation. Comparison with Physic-Based approach.
- Implementation on the Social Robot [ARI](#) for real environment navigation
- Contribution to H2020 European Project: [SPRING](#)
- Regular scientific monitoring on the research field
- Supervision of Bachelor student
- Work on scientific publication

MASTER THESIS - [ROBOTLEARN TEAM](#)

INRIA, Grenoble (France) – September 2022 to February 2023

- First approach to DRL on robot navigation through static and dynamic environment

Skills developed: Gain in technical skills, Scientific Writing

BACHELOR THESIS - INSTITUTE OF SYSTEM DYNAMICS AND CONTROL

DLR, Wessling (Germany) – June 2021 to July 2021

- Development of Neural ODEs based algorithm for complex mechatronic system.
- Learning of Julia Programming Language
- Fully remote because of COVID pandemic

Skills developed: Adaptability to new programming environment and remote working.

EDUCATION

MASTER OF SCIENCE DEGREE

KTH - ROYAL INSTITUTE OF TECHNOLOGY, Stockholm (France) - August 2021 to February 2023

- Double degree program specialized in Machine Learning
- Machine Learning (DD2421) [Grade obtained: A]
- Deep Learning in Data Science (DD2424) [Grade obtained: B]
- Artificial Neural Network and Deep Architecture (DD2437) [Grade obtained: C]
- [\[Control Page Link\]](#) - Send me an e-mail if you need the Control Code

Skills developed: Adaptation to new studying environment and new culture.

ENGINEERING DEGREE

ENSE3 - GRENOBLE INP, Grenoble (France) – September 2019 to February 2023

- Ecole Nationale Supérieure d'Énergie, Eau et Environnement (Ense3) – a leading French school in energy, hydraulics and environmental engineering, part of Grenoble INP (Grenoble Institute of Technology)
- Three-year program in: Electric power, fluid mechanics, computer science, hydraulics.
- Master specialized in Automation and Signal Processing
- [\[Link to Master webpage\]](#)

Skills developed: Teamwork, project management.

PREPARATORY SCHOOL FRANÇOIS ARAGO

Perpignan (France) – September 2016 to August 2019

- Pre-engineering: Strong preparation in Math and Physics for the competitive entrance exams to French "Grandes École"

Skills developed: Time and stress management, organisation.

COMPUTER SKILLS

Programming:
Python, Julia, C, C++, Jax
Docker, Apptainer, LaTeX

Machine Learning framework:
Pytorch, Tensorflow
Sk-Learn, Jax

Knowledge of modelling software:
MATLAB/Simulink, Catia V5 AMESim

LANGUAGES

English - Fluent
[TOEIC Score: 935/990 - October 2023]
[Linguaskill certification - C1 - 2021]

French - Native language

German - Learning

Spanish - Good Level (B2)

Swedish - Good Level (A2)

INTERESTS

Regularly practicing sports: Running, Biking, Swimming

Interested in alternative activities:
Theater, Improvisation, Hypnosis, Meditation

Engagement in favor of ecological and social transition to spread and sensitize people to global warming to reduce human activity impact.