

Lilian Hunout

@ lilian.hunout@ens-paris-saclay.fr in [lilian-hunout](#)

Education

ENS Paris-Saclay

MSC IN MATHEMATICS, VISION, LEARNING (MVA)

Sep. 2023 - Current

Saclay, FR

- World's leading university in mathematics (ARWU)

- **Courses** (1st semester):

- Advanced learning for text and graph data (M. VAZIRGIANNIS)
- Convex optimization and applications in machine learning (A. D'ASPREMONT)
- Geometric data analysis (J. FEYDY)
- Introduction to probabilistic graphical models and deep generative models (P. LATOUCHE, P.A. MATTEI)
- Learning for time series (L. OUDRE)
- Object recognition and computer vision (G. VAROL, I. LAPTEV, J. PONCE)

- Student representative

INSA Centre Val de Loire

MENG IN INDUSTRIAL SYSTEMS

Sep. 2018 - Sep. 2023

Bourges, FR

- **Courses:** statistical theory and methods, machine learning, computer vision, complex systems engineering, risk management (GPA: 4.0)
- Student representative, active participation in various events (student council campaign, open days, etc.)

University of Tours

MSC IN FUNDAMENTAL PHYSICS AND APPLICATIONS

Sep. 2022 - Sep. 2023

Tours, FR

- **Courses:** automotives, robotics, cyber-physical system, multiphysics modelling

Tallinn University of Technology

SCHOOL OF INFORMATION TECHNOLOGIES (ERASMUS+ EXCHANGE)

Sep. 2021 - Jan. 2022

Tallinn, EE

- **Courses:** data mining, machine learning, system programming, embedded systems (GPA: 3.7)

University Projects

PRISME Laboratory

RESEARCH PROJECT FOR MEDICAL APPLICATIONS

Feb. 2022 - Apr. 2022

Bourges, FR

- Detection and tracking of micro-scale magnetic robots on an ultrasound dataset. **Keywords:** YOLOv5, ECO tracker

TalTech Embedded AI Research Lab

END OF SEMESTER PROJECT

Nov. 2021 - Jan. 2022

Tallinn, EE

- Garage door cycle detection model from accelerometric dataset on an STM32 board with X-CUBE-AI. **First prize 250€**

Links

 GitHub [lhunout](#)
 Website lhunout.github.io

Experience

Eviden

AI & COMPUTER VISION RESEARCH INTERN

Feb. 2023 - Aug. 2023

Grenoble, FR

- Big Data & Security division, European project PREVENT PCP
- Detection of abandoned luggage in video streams to improve station safety and limit false alerts. **Keywords:** object detection, tracking, pose estimation, re-identification
- Implementation of score-based object/owner association algorithms.

MBDA

EMBEDDED AI INTERN

Apr. 2022 - Sep. 2022

Bourges, FR

- Implementation of communication protocols, creation of an embedded Linux image on a Xilinx Zynq card, setting up a Vitis AI Docker environment, development of an image classification model.

Skills

Programming

Python • R • C • MATLAB/Simulink • SQL

Libraries

Keras • Tensorflow • PyTorch • OpenCV • Pandas • NumPy • Scikit-learn • Matplotlib • ggplot2

Miscellaneous

Shell • Windows • Linux • Linux Tools • CUDA • Docker • Slurm • L^AT_EX • Markdown • Microsoft Office • Jupyter • Git • Jira (Agile/Scrum)

Embedded systems

ARM • ATmega

Soft Skills

teamwork • time management • problem-solving • documentation • communication • presentation skills • report writing

Languages

English (professionnal proficiency, TOEIC 845/990)

• French (native proficiency, voltaire certificate - business)

Interests

- Sports: mountain biking, judo, snowboarding
- Trips abroad