

Killian Steunou

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Github : <https://www.github.com/killian31>

OBJECTIVE *Starting the Master 2 MVA at ENS Paris-Saclay in September 2024, I am seeking a research internship in AI from April 2025. I am particularly interested in AI in Computer Vision.*

EDUCATION **ENS Paris-Saclay**, Gif-sur-Yvette (France) March 2025
M2 Mathématiques, Vision, Apprentissage
- Deep Learning, Image Processing, Applied Mathematics

Toulouse School of Economics, Toulouse (France) April 2024
M1 - Applied Mathematics, Statistics
- Econometrics, Probability and Statistics, Functional Analysis, Convex Optimization, Python.
- Foundations of Machine Learning, Game Theory, Optimization for Non Smooth Functions, Markov Decision Processes, Data Analysis, Stochastic Methods for Optimization and Sampling.

Toulouse School of Economics, Toulouse (France) May 2022
Double bachelor in Applied Mathematics and Economics
- Economics, Applied Mathematics, Statistics, Computer Science

University of Copenhagen, Copenhagen (Denmark) Sep. 2022 - Jan. 2023
Gap year - 1 semester
- Natural Language Processing, Blockchain Business Dev, Energy Economics, Tax Policy

TECHNICAL SKILLS **Languages:** Python, R, Scilab, L^AT_EX
Tools/Framework: Git, PyTorch, Linux, Vim, Visual Studio, R Studio, Jupyter
General: Optimization, Data Structures, Algorithm, Machine Learning, Web Scrapping

EXPERIENCE **C.L.S.: AI Research Intern** April 2024 - August 2024
Benchmarking Foundation Models (FM) for Earth Observation, against standard models for semantic segmentation.
- Review of SOTA self-supervised learning methods for images, and remote sensing data.
- Development of a fully tested and documented Python library to finetune foundation vision models.

Jolibrain: Machine Learning Engineer Intern February 2023 - July 2023
- Contribution to the open source image generation tool joliGEN (implemented different edge detection methods for generation control)
- Implementation of SOTA models for image generation, and detection.
- Training of various experimental diffusion models for inpainting task.

French Ministry of Agriculture: R Developer Intern May - August 2022
Agile development of an R package which goal is to help create statistical publications by automating tasks, including an advanced graphic interface in R Shiny.

PROJECTS
(you will find more on my GitHub)

Object Recognition : Owl-Vit for videos February 2023
Implementation of Google's Owl-ViT model for zero-shot object detection in videos.
More information: <https://github.com/killian31/ObjectsDetection>

Academic Project: Multilingual Machine Reading Sep - Dec 2022
NLP project which goal was to build a question answering system in English, Finnish and Japanese, using various methods (BoW, pretrained GPT-like models...)
Project Link: <https://github.com/killian31/Multilingual-Machine-Reading>

CERTIFICATIONS

- **Python 3 Programming** by University of Michigan on Coursera
- **TOEFL IBT: 104**