# Sinoué GAD

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☐ GitHub | ☐ LinkedIn | ⊕ Website | ☑ Hugging Face

Objective: Looking for an internship in machine learning/AI research When: Spring/Summer 2026

## **PROJECTS**

Luth - KuraKura

GitHub ─ ❷ Hugging Face

- Built and fine-tuned French LLMs with curated datasets and model merging, achieving SoTA French results with strong cross-lingual retention.
- Collaborated with **LiquidAI** to release a French fine-tuned version of LFM2.

Muon Clip

🞧 GitHub

Developed an implementation of the Muon optimizer in pytorch featuring the latest research advancements:
QK-clipping, improved Newton–Schulz gradients orthogonalization with gradient matrix eigenvalue estimation,
ZeRO 1 like distributed training ...

VLM GRPO

- Implemented GRPO training for VLMs, missing from existing frameworks.
- Integrated with TRL and Unsloth for seamless use and for multiple VLMs (Qwen, Gemma, LLaMA...).
- Collaborated with the **Unsloth team** to integrate this implementation into their framework.

## WORK EXPERIENCE

## Ampere - AI research intern

Spring 2025 – 6 months

 Conducted research to develop a real-time model for high-level semantic understanding of road scenes, leveraging state-of-the-art vision-language models and reinforcement learning.

## X&Immersion - ML research intern

Spring 2024 – 3 months

- Developed and implemented an optimized AI model focused on emotional intelligence generation, using NLP and LLMs.
- Integrated the model into a real-time game engine (Unreal Engine), optimizing performance for in-game use.

## **EDUCATION**

#### Ecole Polytechnique

2025 - present

MSc Data Science

#### Politecnico di Milano

2024 - 2025

M2 Track Computer Science / AI

Relevant coursework: Data mining, Foundations of AI, Deep learning, Uncertainty in AI, Computer vision.

## Télécom SudParis

2022 - 2025

Master's degree - Mathematics and Computer Science

Relevant coursework: Machine learning and deep learning, data analysis, applied statistics and probabilities, optimization algorithms, computer vision, data mining.

## SKILLS & INTERESTS

Programming Languages: Python, C, Bash, Java, Git

Frameworks: Pytorch, Transformers, Triton, Unsloth, TRL, Peft, vLLM, Numpy, Pandas

Languages: French (native), English (C1), Arabic (A2)

Github Contributions: Unsloth, Axolotl, MergeKit, LightEval

Extracurricular: Rower (ex-French champion), 3D Artist, Guitar player