

Dimitri Timoz

AI Research Engineer | Generative AI, LLMs and Scientific Software

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AI engineer and independent builder combining applied research, generative models, LLMs and reliable software.
Experience with complex sequential and geometric data, robust evaluation, open source and projects used by real users.

EXPERIENCE

Orange Machine Learning Research Intern Apr. 2026 to Sep. 2026

- Designed the first model worldwide for variable synthetic mobility trajectory generation, opening new applications.
- Curated data and built the training and evaluation pipeline for one Transformer handling **5 generation tasks**.
- Assessed generalization, interpretability and privacy. Research **submitted to AAAI**.

LITIS Machine Learning Research Intern Jun. 2025 to Aug. 2025

- Built a Transformer model for EEG signals represented on symmetric positive definite manifolds.
- Tested model robustness with adversarial attacks and integrated them into SPDLearn.
- Research paper accepted at **IEEE ICASSP 2026**.

ENGINEERING & OPEN SOURCE

Genda Co founder & Lead Developer 2021 to 2025

Built and maintained an open source service used by **1,700 active users**. Owned the backend, architecture, deployment and release workflows.

Burn Open Source Contributor 2025

Implemented differentiable PA=LU matrix decomposition in a Rust deep learning framework. [Pull Request 3816](#)

Independent projects AI | Software | Scientific Computing 2017 to present

Built dozens of independent projects across AI, robotics, scientific computing and software, with more than **4,000 hours** measured with WakaTime. Selected work includes a context aware music recommendation system, a fact checker, an Airbnb tourism sheet generator and the [GitHub portfolio](#).

PUBLICATION

D. Timoz, T. de Surrel, F. Yger. "Riemannian adversarial attacks on Symmetric Positive Definite matrices." **IEEE ICASSP 2026**

EDUCATION

INSA Rouen Normandie | Engineering Degree in Computer Science, Data Science 2021 to 2026
UFR Sciences et Techniques, University of Rouen | Master's in Data Science (**Double Degree**) 2025 to 2026

International mobility | Exchange semester at Vytautas Magnus University, Lithuania | Deep Learning focus

SKILLS

ML Python, PyTorch, Transformers, LLMs, RAG, NumPy, Scientific Python
Engineering Rust, Docker, Git, CI/CD, Linux
Domains Foundation Models, Generative AI, RAG, Complex Data, Robust Evaluation

AWARDS

Jeanne d'Hack 1/300 | TRACS 2/110 | Cod'INSA Winner | 2x SWERC participant French: Native | English: TOEIC 895