

DIMITRI TIMOZ

M.Sc. Student in Data Science & Machine Learning

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📍 France

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RESEARCH EXPERIENCE

Research Intern ML/DL

LITIS (Supervised by F. Yger & T. de Surrel)

📅 June – August 2025

📍 Rouen, FR

- **Riemannian Adversarial Attacks:** Developed PGD/BIM attacks on SPD manifolds for EEG classification.
- **Publication:** Accepted to **ICASSP 2026**.
- **SPD Transformer:** Designing a covariance attention mechanism preserving geometry. (*Ongoing collaboration post-internship*).

Research Intern

Orange Innovation

📅 April 2026 – Sept. 2026

📍 Belfort, FR

- **Generative DL:** Transformer-based simulation of spatio-temporal mobile network traffic.
- **Objectives:** Synthetic data generation for privacy preservation and model interpretability.

EDUCATION

Master's in Data Science (Double Degree)

University of Rouen

📅 Sept. 2025 – Aug. 2026

📍 Rouen, FR

- Sequence/Graph learning, Reinforcement Learning, NLP, Information Retrieval, Medical Imaging.

Engineering degree in Computer Science

INSA Rouen Normandie

📅 Sept. 2021 – Aug. 2026

📍 Rouen, FR

- Major in Data Science. Elected student representative.
- **Exchange Semester:** Vytautas Magnus University (Lithuania) – Focused on Deep Learning (Feb. – June 2025).

ENGINEERING & OPEN SOURCE

Co-founder & Lead Developer

Genda (Open Source)

📅 2021 – 2025

📍 Remote

- Full-stack **Rust** (Actix) architecture with Docker & CI/CD pipelines.
- High-availability service: **1.7k** active users.

Freelance Full Stack

E-commerce Platform

📅 Summer 2023

📍 Remote

- Built a payment-integrated web app (React/Node.js).

PUBLICATIONS

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

SKILLS

PyTorch

GNN

Transformers

Proba/Stats

Rust

Python

C++

Docker

Git

SCIENTIFIC PROJECTS

- **Burn (Rust DL Framework)**
Contributor. Implemented differentiable matrix decomposition (PA=LU) for the tensor backend.
🔗 Pull Request #3816
- **Histopathologic Segmentation**
Weakly supervised tissue segmentation on WSI (Whole Slide Images) using Weakly Supervised Learning.
- **Fluid simulation / ML (CFD)**
Data-driven CFD models combining physics & DL.
🔗 github.com/DimitriTimoz/cfdml
- **Lidar Evidential Mapping**
ROS package for tiled occupancy grids using Dempster-Shafer theory.
🔗 View on GitHub

HACKATHONS

- **NeurIPS 2024 ML4CFD**
- **Cod'INSA 2025 (Winner)**
- **JINSAkatHon 2022 (Winner)**
- **TRACS 2025 (2/110)**
- **SWERC (2x Participant)**

LANGUAGES

French (Native) English (TOEIC - 895)

ABOUT ME

ML/DL engineering student looking for a PhD position starting **October 2026**.