

Theo DI PIAZZA

France | Email: theo.dipiazza@gmail.com | [Google Scholar](#) | [Github](#)

EDUCATION

Ecole normale supérieure Paris-Saclay

Paris, France

- Master of Science (MSc) - MVA (Mathématiques, Vision, Apprentissage) 2022-2023
 - Convex optimization - Deep Learning for signal processing - Reinforcement Learning - Object recognition and Computer Vision - Responsible Machine Learning
 - Machine Learning for Time Series - Graphs for Machine Learning - Advanced Deep Learning - Deep Learning for medical imaging

INSA Rennes

Rennes, France

- Master of Science (MSc) - Applied Mathematics Department - Engineering degree 2017-2022
 - Data : Machine Learning - Supervised / Unsupervised Learning - Regression - Classification - Risk and Scoring - Time Series - Multivariate Analysis - Inferential Statistics
 - Optimization: Operational Research - Branch & Bound/Price
 - Applied Mathematics: Stochastic Dynamical System Model - Markov Chains - Hilbertian Tools - PDE

Instituto Superior Técnico Lisboa

Lisbon, Portugal

- Master of Science (MSc, International Exchange Program) - Applied Mathematics 2021-2022
 - Deep Learning (Natural Language Processing & Computer Vision) - Data Mining - Clustering Methods

PROFESSIONAL EXPERIENCE

Philips, Hospices Civil de Lyon, University of Lyon.

Lyon, France

- *PhD Student* January 2024 - January 2027
 - Deep learning algorithms for report generation and multi-label anomaly classification from 3D CT Scans.
 - Papers accepted for publication at SPIE 2025, ISBI 2025 and MIDL 2025 as oral presentations.

Thales, Centre Borelli. Under the supervision of [Pr. Gabriele Facciolo](#)

Paris, France

- *AI Research Intern* April 2023 - September 2023
 - Deep learning & Computer Vision algorithms for vision-based drone localisation.
 - Paper accepted for publication at IGARSS 2024 as oral presentation.

Centre Léon Bérard. Under the supervision of Dr. Loïc Verlingue

Lyon, France

- *AI Research Intern* March 2022 - August 2022
 - Development, testing and interpretation of NLP algorithms for monitoring of patients in oncology.
 - Paper under review for Nature Partner Journals on Precision Oncology.

Hupi

Bidart, France

- *Consultant Data Scientist Intern* May 2021 - August 2021
 - Development and deployment of a machine failure prediction model for a Spanish industrial group.
 - Analysis of data on the follow-up of dependent persons and prediction of their date of institutionalization.

PROJECTS

- *Deep Learning Projects* - [\[Academic projects\]](#)
 - Computer vision: bird classification by transfer learning, radiation dose prediction for cancer patients, self-supervised learning for image classification
 - Signal: voice/noise source separation for voice enhancement

PUBLICATIONS

- Imitating Radiological Scrolling: A Global-Local Attention Model for 3D Chest CT Volumes Multi-Label Anomaly Classification. [Accepted for publication at MIDL 2025, oral presentation.](#) [\[ArXiv\]](#)
- CT-AGRG: Automated Abnormality-Guided Report Generation from 3D Chest CT Volumes. [Accepted for publication at ISBI 2025, oral presentation.](#) [\[ArXiv\]](#)
- Leveraging Edge Detection and Neural Networks for better UAV Localization. [Accepted for publication at IGARSS 2024, oral presentation.](#) [\[ArXiv\]](#) [\[code\]](#)
- An Explainable Language Model Predicts Survival from Medical Reports in Oncology. [Under review for NPJ Precision Oncology.](#) [\[Preprint\]](#) [\[code\]](#)