

Tommaso Galliena

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Personal Profile

2nd year Ph.D. student in computer vision researching 3D vision and natural language. My research interests include 3D scene understanding (captioning, grounding) in vision and language and scene representation (semantic gaussian splatting). Previously, a deep learning researcher in computer vision in healthcare, including developing and deploying models to solve ML problems in cardiovascular imaging.

Experience

Visiting Research Student

Simon Fraser University

Research internship at 3D Vision and Language lab supervised by Prof. Angel Xuan Chang

Vancouver, Canada

August 2025 - Present

PhD Student in Computer Vision and Embodied AI

Italian Institute of Technology

My research lies at the intersection of 3D scene understanding, natural language processing, and semantic scene representation, with a focus on self-supervised learning.

Genova, Italy

March 2024 - Current

Deep Learning Researcher

San Raffaele Research Hospital

I contributed to interdisciplinary research applying deep learning to medical imaging, focusing on CNN-based analysis of CT and MRI scans for cardiac disease detection. I also worked on improving the interpretability and generalizability of medical imaging algorithms through systematic evaluation and model refinement.

Milan, Italy

October 2023 - March 2024

AI Researcher Internship

Argo Vision

During my internship, I have developed a Siamese U-Net model with pixel-wise spatial and temporal attention mechanisms for automated detection and segmentation of abdominal aortic aneurysm dilatation from CT scans, achieving 98% accuracy with fewer than 260,000 parameters

Milano, Italy

January 2023 - October 2023

Education

Master Degree in Artificial Intelligence

University of Pavia

Completed specialized coursework in deep learning, image processing, computer vision, machine learning, and computational learning

Pavia, Italy

October 2021 - October 2023

Bachelor Degree in Biomedical Engineering

University of Pavia

Coursework in software engineering, pattern analysis, computer vision, algebra, optimization, and probability.

Pavia, Italy

October 2018 - September 2021

Extra Curricular Activity

Oxford Machine Learning Summer School

University of Oxford

Oxford, UK

August 2025

Probabilistic Machine Learning Summer School

University of Cambridge

Cambridge, UK

July 2024

Math and Java Programming Tutor

University of Pavia

Pavia, Italy

October 2021 - June 2023

Publications

Embodied Image Captioning: Self-supervised Learning Agents for Spatially Coherent Image Descriptions

[Tommaso Galliena](#), [Tommaso Apicella](#), [Stefano Rosa](#), [Pietro Morerio](#), [Alessio Del Bue](#), [Lorenzo Natale](#)

Accepted as a Highlight at ICCV 2025

[Paper Link](#)

Semiautomatic volume measure of kidney vascular territories on CT angiography to plan aortic aneurysm repair in patients with horseshoe kidney

[Axel Bartoli](#), [Alberto Colombo](#), [Francesco Pisu](#), [Tommaso Galliena](#), [Chiara Gnasso](#), [Enrico Rinaldi](#), [Germano Melissano](#), [Anna Palmisano](#), [Antonio Esposito](#)

[Paper Link](#)