



Lorenzo Cipelli

Nationality: Italian **Date of birth:** 11/06/2000 **Gender:** Male

✉ **Email address:** lorenzo.cipelli@unipr.it

🌐 **LinkedIn:** <https://www.linkedin.com/in/lorenzo-cipelli-3b1665230>

🌐 **Website:** <https://lorenzocipelli.github.io/>

EDUCATION AND TRAINING

Visiting PhD Student

Intelligent Vehicles Group at TU Delft [03/16/2026 – Current]

Address: 3mE Faculty, TU Delft Mekelweg 2, Delft (Netherlands) | **Website:** <https://intelligent-vehicles.org/> | **Field(s) of study:** Computer Vision | Deep Learning

Under the supervision of Professor **Holger Caesar**, I work on feature fusion strategies to improve perception generalization across sensor setups and environments by leveraging 3D vision Foundation Models. The final goal is to develop a training pipeline that will enable cross-data generalization, focusing on the calibration problem.

PhD Student in Deep Learning for Computer Vision

VisLab S.r.l. and Università degli studi di Parma [11/01/2024 – Current]

Address: Via delle Scienze, 181/a, Parma (Italy) | **Website:** <https://vislab.it/> | **Field(s) of study:** Computer Vision ; Deep Learning

Current field of work is focused on **Autonomous Driving Cars**, and my supervisor is **Massimo Bertozzi**. The main activity is the development of an automatic multi-modal sensor calibration tool, in order to register the miscalibration between RGB Cameras and LiDAR/Radar. Current work focuses on fusing 3D and 2D data, enabling deep-learning models to find correspondences between different representations and solve the miscalibration. I also briefly worked on deep learning-based LiDAR Odometry.

Master's degree in Computer Engineering

Università degli studi di Parma [10/08/2022 – 10/07/2024]

Address: Via delle Scienze, 181/a, 43124 Parma (Italy) | **Website:** <https://corsi.unipr.it/cdlm-ii> | **Field(s) of study:** Information and Communication Technologies | **Final grade:** 110L | **Type of credits:** CFU | **Number of credits:** 120 | **Thesis:** Deep Learning-based multi-modal Sensor Calibration

Operational Research, Linear Multivariable Systems, Real-Time OS, Concurrent Programming, Parallel Computing, Quantum Computing, Functional Programming, Computer Vision, Visual Perception for Self-Driving Cars, ADAS Technology, Deep Learning, Machine Learning.

Bachelor's degree in Computer, Electrical and Telecommunication Engineering

Università degli studi di Parma [07/25/2019 – 10/07/2022]

Address: Via delle Scienze, 181/a, 43124 Parma (Italy) | **Website:** <https://corsi.unipr.it/cdl-ii-et> | **Field(s) of study:** Information and Communication Technologies | **Final grade:** 109 | **Type of credits:** CFU | **Number of credits:** 180 | **Thesis:** Design and Development of a Trading System based on Sentiment Analysis using Transformer

Calculus, structured and object-oriented programming, principle of electronics and signal analysis, software engineering, databases, computer architecture, introduction to artificial intelligence, introduction to web technologies, network protocols and cybersecurity.

High School degree in Computer Science

ITIS Leonardo Da Vinci [09/15/2014 – 06/24/2019]

Address: Via Toscana, 10, 43122 Parma (Italy) | **Website:** <https://www.itis.pr.it/> | **Field(s) of study:** Information and Communication Technologies: • Computer use | **Final grade:** 91

PUBLICATIONS

CalibBEV: LiDAR-Camera Calibration via BEV Alignment

The IEEE/CVF Winter Conference on Applications of Computer Vision 2026.

Cipelli Lorenzo, D'Addeo Filippo, Cardace Adriano, Ghelfi Emanuele, Zinelli Andrea, Bertozzi Massimo

Additional information regarding our work can be found inside this interview by the WACV Daily for our oral presentation: <https://www.rsipvision.com/WACV2026-Monday/9/>

Credits to Ralph Anzarouth.

CONFERENCES AND SEMINARS

[07/06/2025 – 07/12/2025] Scicli, Ragusa

ICVSS - International Computer Vision Summer School 2025 ICVSS' lectures covered a wide variety of topics such as foundation models for 3D and 4D scene reconstruction, world models, generative models for images and videos, AI avatars, SLAM and Spatial AI. At the end of the week an examination session was held, in order to assess the students' comprehension of the main concepts shown during classes.

Link: <https://icvss.dmi.unict.it/icvss2025/Home>

[01/27/2025 – 01/31/2025] Brunico

ELIAS-ELLIS-VISMAL Winter School 2025 Lectures covered topics such as large-scale foundation models, self-supervised and multi-modal representation learning, multi-modal learning for robotics, and machine learning for sustainable solutions. The program included tutorial sessions where participants had the opportunity to engage in a week-long project.

Link: <https://elias-ai.eu/event/ellis-vismal/>

WORK EXPERIENCE

 **VisLab S.r.l.** – Parma, Italy

Intern

[03/04/2024 – 10/07/2024]

Development of tools for automatic calibration of multi-modal systems using RGB Cameras and 3D sensors, such as LiDAR and Radar, for the thesis project entitled: Deep Learning-based multi-modal Sensor Calibration.

My academic supervisor was Professor **Paolo Medici**, while inside the company I have been supervised by **Filippo D'Addeo**, **Emanuele Ghelfi** and **Fabjan Kallasi**.

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user