

# Filippo D'Addeo

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🎓 <https://scholar.google.com/citations?user=QSjDGEwAAAAJ>



## Overview

Ph.D. Student in Automotive Engineering for Intelligent Mobility at University of Bologna, expected to graduate in October 2026. My doctoral research titled "Deep Learning-based Multi-Modal Sensor Fusion for Autonomous Driving" has been conducted in collaboration with VisLab srl (an Ambarella Inc. company), where I had the opportunity to work within the domain of a company developing their proprietary AD software stack. My expertise centers on deep learning-based multi-modal perception, with a strong focus on sensor fusion and 3D scene understanding.

## Employment History

- 11/2023 – present 📌 **Ph.D. Student**, VisLab srl (an Ambarella Inc. Company).
- 03/2023 – 10/2023 📌 **Engineer Intern**, VisLab srl (an Ambarella Inc. Company).
- 07/2022 – 11/2022 📌 **Web App Developer Intern**, Greci Industria Alimentare S.P.A.
- 06/2022 – 12/2022 📌 **Laboratory Assistant**, University of Parma, Department of Engineering and Architecture.

## Education

- 11/2023 – present 📌 **Ph.D. Automotive Engineering for Intelligent Mobility, University of Bologna.**  
Thesis title: *Deep Learning-based Multi-Modal Sensor Fusion for Autonomous Driving.*
- 09/2021 – 10/2023 📌 **M.Sc Informatics Engineering, University of Parma** in Industrial Informatics with grade 110 cum Laude.  
Thesis title: *Deep Learning-based Sensor Fusion for 3D Object Detection.*
- 09/2018 – 10/2021 📌 **B.Eng. ICT Engineering, University of Parma.**  
Thesis title: *Style Transfer for bottle labels using Adaptive Instance Normalization.*
- 09/2013 – 06/2018 📌 **High School Diploma** in Liceo Scientifico Bertolucci.

## Research Publications

### Journal Articles

- 1 **F. D'Addeo** et al., "Semmai : Semantic-aware multi-modal aligner for lidar-camera calibration via surrogate diffusion," *Under review at International Journal of Computer Vision.*,
- 2 **F. D'Addeo** et al., "End-to-end lidar-camera calibration via multi-modal correspondences estimation and explicit bev alignment," *International Journal of Computer Vision* (2026), vol. 134, no. 333, 2026.  
🔗 DOI: <https://doi.org/10.1007/s11263-026-02921-0>.

### Conference Proceedings

- 1 **F. D'Addeo**, L. Cipelli, A. Cardace, E. Ghelfi, A. Zinelli, and M. Bertozzi, "Calibbev: Lidar-camera calibration via bev alignment," in *Proceedings of the IEEE/CVF Winter Conference on Applications of Computer Vision*, Oral Presentation, 2026, pp. 4345–4354.
- 2 **F. D'Addeo**, A. Zinelli, and M. Bertozzi, "Improving 3d multi-view object detection via explicit query supervision," in *2025 IEEE Intelligent Vehicles Symposium (IV)*, IEEE, 2025, pp. 1415–1420.

## Educational Experiences

- 11/2025 – 03/2026  **Ph.D. Research Abroad Period**, Autonomous Mobility and Perception Lab, University Carlos III of Madrid (UC3M).
- 07/2017 – 08/2017  **EF short-term Study Abroad Program**, Bournemouth (UK).

## Doctoral Schools

- 01/2025  **ELIAS-ELLIS-VISMAC Winter School 2025**, ELIAS - European Lighthouse of AI for Sustainability.
- 07/2024  **International Computer Vision Summer School (ICVSS) 2024**, Computer Vision in the Age of Large Language Models.

## M.Sc. Students Supervision

- 2026  **Radar Reconstruction with 3D Gaussian Splatting for Autonomous Driving**, Veronesi Andrea from University of Parma.
- 2024  **Deep Learning-based Multi Modal Sensor Calibration**, Cipelli Lorenzo from University of Parma.

## Skills

### Programming Languages

-  **Python**.
-  **C++**, base knowledge mostly for pybind modules.

### Python Frameworks

-  **Numpy**
-  **PyTorch**
-  **PyTorch Lightning**

### Platforms

-  **Docker**

### Languages

-  **Italian**, mother tongue.
-  **English**, fluent (level B2).

### Personal Skills

-  Problem-solving and analytical thinking.
-  Teamwork and cross-functional collaboration.
-  Highly adaptable, with the ability to transition efficiently between multiple projects and priorities.
-  Strong collaborative mindset, fostering productive partnerships across teams and functions.