

Lorenzo Cirillo

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Summary

I'm a Ph.D student in Cybersecurity & Computer Vision at the Sapienza University of Rome, Department of Computer, Control and Management Engineering. My current research interests include the design of efficient and secure deep learning models for computer vision by adopting eXplainable Artificial Intelligence (XAI) and optimization techniques. I have a Master's degree in Artificial Intelligence & Robotics (LM-32) and a Bachelor's degree in Computer and Control Engineering (L-8). I completed the Excellence Path for outstanding students during my Master's studies.

Work Experiences

- 2023-2024 ♦ **AI Researcher.** Bank of Italy Applied Research Team.
During my master's studies, I made an internship for 10 months as AI Researcher at the Applied Research Team of Bank of Italy, focusing on Knowledge Graph modeling and anomaly configuration detection.
Computer skills: Python; Neo4j, Cypher
- 2022 ♦ **Software Engineer.** Key Partner s.r.l.
During my bachelor studies, I made a full-paid internship for my thesis at IT consulting company Key Partner s.r.l., Rome, as software engineer, developing a web app for business use that allows quick initialization of projects on Gitlab.
Computer skills: Javascript, ReactJS, NodeJS, PHP, HTML, CSS

Education

- 2022-2024 ♦ **M.Sc. Engineering in Artificial Intelligence and Robotics**, *Sapienza University*, Rome, Italy.
Date - 10/2024, Current GPA - 29, Grade - 110/110 cum laude, CFU - 120
Thesis title: *Towards Efficient and Interpretable Depth Estimation: A Study on Attention Module Optimization and Model Explainability*
This thesis investigates the impact of attention module optimizers on the efficiency of lightweight and deep neural networks for monocular depth estimation, by studying the explainability of such models.
Thesis Supervisors: Prof. Irene Amerini, Prof. Paolo Russo, Ph.D. Lorenzo Papa
- 2023-2024 ♦ **Excellence Path for Master studies**, for outstanding students, *Sapienza University*, Rome, Italy.
Date - 10/2024
- 2019-2022 ♦ **B.Sc. Computer and Control Engineering**, *Sapienza University*, Rome, Italy.
Date - 07/2022, Grade - 107/110, CFU - 180
Thesis title: *Automating Gitlab procedures of scaffolding: quick project initialization.*
This thesis develops a web app to automate and expedite GitLab project initialization. Utilizing ReactJS and NodeJS, the app offers a user-friendly interface to quickly configure and scaffold new GitLab projects, enhancing productivity and standardizing the setup process.
Thesis Supervisor: Prof. Marco Angelini

Education (continued)

- 2014-2019 ◇ **High School Scientific qualification**, *Evangelista Torricelli*, Rome, Italy.
Date - 07/2019, Grade - 94/100
- 2017 ◇ **Cultural Research & Integration Programme**, *Carlow International English Language School*, Carlow, Ireland.
During my time in Carlow, Ireland, attending an Irish school was an enriching experience. I was immersed in both the English language and Irish traditions, learning not just through textbooks but also through local cultural practices. From participating in traditional music sessions to understanding the nuances of the Irish language, the experience was a blend of education and cultural discovery, making my stay in Carlow truly unforgettable.

Research Publications

- [1] C. Schiavella, **L. Cirillo**, L. Papa, P. Russo, and I. Amerini, "Optimize vision transformer architecture via efficient attention modules: A study on the monocular depth estimation task," in *International Conference on Image Analysis and Processing*, Springer, 2023, pp. 383–394. [🔗 URL: https://link.springer.com/chapter/10.1007/978-3-031-51023-6_32.](https://link.springer.com/chapter/10.1007/978-3-031-51023-6_32)

Computer skills

- Advanced ◇ Python (PyTorch, TensorFlow), Matlab, SQL, C, Linux, \LaTeX
- Intermediate ◇ Java, Javascript, NodeJS, ReactJS, HTML, CSS
- Basic ◇ C++, ROS, PHP

Certification

- 2019 ◇ English level B2 (university eligibility).
- 2018 ◇ IT certification ECDL.

Languages

- ◇ Italian (mothertongue)
- ◇ English (advanced)
- ◇ French (basic)

Interests

- ◇ Technology, Sport, Volunteering