

Daniele Materia

 [danielemateria](#) |  [danielemateria](#) |  [danielemateria.github.io](#)

SUMMARY

Computer Science Master's student at the University of Catania and member of the [LIVE@IPLAB](#) research group. My academic focus is centered on AI and Computer Vision, with a specific interest in Vision-Language Models for egocentric video understanding and the development of intelligent assistive systems tailored for users performing complex procedural tasks.

WORK EXPERIENCE

Research Scholarship at [University of Catania](#) Apr 2026 - Current
Research Scholarship on the study and development of Multimodal Learning algorithms for procedural task assistance and mistake detection. Scientific supervisor: prof. Giovanni Maria Farinella.

Student Researcher Internship at [Next Vision](#) Feb 2025 - June 2025
Conducted research on the design of multimodal LLM-based Computer Vision algorithms, with a focus on Object Anticipation tasks in Egocentric Vision.

EDUCATION

2025 - present	Master's Degree at University of Catania (GPA: 4.0/4.0) Computer Science (AI & Machine Learning curriculum)
2022 - 2025	Bachelor's Degree at University of Catania (GPA: 3.83/4.0) Computer Science (AI & Robotics curriculum) Thesis title: Predicting Next-Active Objects with Vision Large Language Models in Ego-centric Scenarios. Final grade: 110/110 cum laude.

PUBLICATIONS

Rosario Leonardi, Francesco Ragusa, Daniele Materia, et al. (2026). "EgoInteract: Synthetic Egocentric Videos Generation for Interaction Understanding and Anticipation". In: *arXiv preprint arXiv:2605.18214*.

Daniele Materia, Francesco Ragusa, and Giovanni Maria Farinella (2026). "Leveraging Gaze and Set-of-Mark in VLLMs for Human-Object Interaction Anticipation from Egocentric Videos". In: *Pattern Recognition*. Ed. by Maria De Marsico et al. Lecture Notes in Computer Science. Cham: Springer Nature Switzerland, pp. 139–154. ISBN: 978-3-032-31404-8. DOI: [10.1007/978-3-032-31404-8_10](#).

CONFERENCES

28th International Conference on Pattern Recognition (ICPR2026)	August 2026
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SCHOOLS AND WORKSHOPS

VISMAL 2026	September 2026
International Computer Vision Summer School (ICVSS26)	July 2026
SicilianAI Workshop	December 2025

AWARDS

Archimede Prize – 22nd edition

July 2026

Awarded to the best computer science bachelor's and master's degree graduates at UniCT, class of 2024-25

PERSONAL ACHIEVEMENTS

C2 Proficiency (CPE) Issued by Cambridge English

July 2026

1st Dan Black Belt Shotokan Karate (FIJLKAM)

November 2025

LANGUAGES

English Fully proficient (C2 level). Daily use in technical research and academic writing.

Italian Native speaker