

MARIA PILLIGUA (AI STUDENT AND AI RESEARCHER)

Phone: (+34) 656328976
Mariaepc31@gmail.com

Barcelona, Spain
<https://mpilligua.github.io>

4th-year Bachelor's student in Artificial Intelligence at UAB, ranked in the top 5% of my class with a GPA of 9.32/10. At 22 years old, I have over two years of research experience in AI with publications in top conferences like ECCV, specializing in Computer Vision. I am highly motivated and eager to collaborate on impactful projects.

EDUCATION

BS	Bachelor's Degree in Artificial Intelligence, <i>Autonomous University of Barcelona (UAB)</i> GPA 9.32 / 10	2021 – 2025
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HONORS, AWARDS AND INTERNSHIPS

Throughout my academic and research career, I have been fortunate to receive several distinctions, scholarships, and opportunities that recognize my commitment to excellence and research potential.

Honors	2021 – Present (Nov 2024)
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- **Top 5% in 15 subjects**
Received honors in 15 courses, including advanced topics such as Deep Learning and Natural Language Processing.

Awards

- **ECCV Diversity, Equity and Inclusion (DEI) Scholarship** Sept 2024
Selected as one of 29 recipients from 524 applicants worldwide for exceptional research contributions and commitment to diversity in AI.
- **Best Presentation Award – CVC Scholarship Program** July 2024
Awarded for delivering the top presentation among all interns at the Computer Vision Center.
- **'Elena Maseras' Research Scholarship** Sept 2024 – March 2024
- **'Rosa Sensat' Research Scholarship** April 2024 – July 2024
- **Research Scholarship** March 2023 – June 2023

All 3 research scholarship were awarded by CVC due to academic excellence, they provided hands-on experience in cutting-edge research. The first scholarship (March 2023 – June 2023) designed for master's students, which I received as a 2nd year undergraduate.

- **World Robot Olympiad 4 Years National Champion** 2016-2019

Led the team that secured Spain's national championship title for four consecutive years, competing at the international level. This experience sparked a competitive drive and showcased my early interest in technological innovation and robotics.

RESEARCH EXPERIENCE

With a strong foundation in Artificial Intelligence and Computer Vision, I have gained hands-on experience in innovative research projects over the past 2 years at the Computer Vision Center (CVC) in Barcelona. My work spans various cutting-edge topics, with contributions to high-impact conferences like ECCV or CVPR.

Student Researcher, Computer Vision Center, Barcelona, Spain Jan 2023 - Present
Advisor: Javier Vazquez-Corral

- **Video Decomposition** June 2024 – Nov 2024
Developed a meta-learning strategy for video decomposition using hypernetworks, enabling faster convergence and improved training efficiency for video editing workflows.
Accepted to CVPR 2025
- **Document Understanding** Feb 2024 – June 2024
Contributed to the design of a dual-layer document restoration framework for separating text and graphical elements, enhancing domain adaptability in document image restoration.
Presented at a workshop at ECCV 2024 and ICDAR 2024
- **Low Light Enhancement** Jan 2023 – Jan 2024
Developed a novel model and created a dataset for enhancing low-light images, improving current state-of-the-art approaches.
A web page explaining each project in detail can be seen in my [personal web page](#)

LANGUAGES

English: C1 IELTS level (Grade: 7.5)
Spanish and Catalan: Native Language

COMPUTER SKILLS

Programming: Python, C++
Libraries: PyTorch, TensorFlow, Scikit-learn, OpenCV, Pandas, Matplotlib.
Other tools: SLURM, Git, LaTeX.

REFERENCES

Dr. Javier Vazquez-Corral
Jvazquez@cvc.uab.cat
Autonomous University of Barcelona
<https://jvazquezcorral.github.io>
Spain

Prof. Michael S. Brown
Mbrown@yorku.ca
York University – Toronto
<http://www.cse.yorku.ca/~mbrown/>
Canada