Benedetta LIBERATORI

Benedetta Liberatori is currently working towards a Ph.D. at the University of Trento, Italy. She is part of the Multimedia and Human Understanding Group (MHUG), supervised by Prof. Elisa Ricci. Her research interests lie in the area of computer vision, with a focus on video understanding and vision-language models.

PERSONAL DATA

PLACE AND DATE OF BIRTH:	Rome, Italy | 20 January 1999
REACH ME @:	✉ 🌐 ⌂ X ⅁ in

EDUCATION

2022 – present Ph.D. in COMPUTER SCIENCE. **University of Trento**, Trento
Research Interests: Video Understanding, Vision-language Foundation Models.
Advisor: Prof. Elisa RICCI
Cosupervisor of 4 M.Sc. thesis.
Published papers: [2, 3, 1, 4]

2020 – 2022 M.Sc. in ARTIFICIAL INTELLIGENCE. **University of Trieste, SISSA, ICTP**, Trieste
110/110 *summa cum laude* (GPA: 4.0) \| Relevant Coursework: [Machine \| Deep \| Reinforcement] Learning, Computer Vision and Pattern Recognition, Foundations of HPC, Advanced Programming, Software Development Methods, Data Management.

2017 – 2020 B.Sc. in MATHEMATICS. **University of Rome La Sapienza**, Rome
110/110 *summa cum laude* (GPA: 4.0) \| Relevant Coursework: Analysis, Algebra, Probability, Mathematical Optimization, Algorithmic Design, Geometry.

EXPERIENCE

2024 **Teaching Assistant**
INTRODUCTION TO MACHINE LEARNING, *University of Trento*
Instructors: Paolo Rota, Yiming Wang

2021 – 2022 **Research Intern** at FONDAZIONE BRUNO KESSLER, Trento
DEEP VISUAL LEARNING (DVL) LAB
Research state-of-the-art methods for video anomaly detection on CCTV footage and develop a method to detect anomalous activities. The DVL Lab conducts research in the areas of deep learning and computer vision, developing novel methodologies for image and video understanding.

PUBLICATIONS

[1] <u>Benedetta Liberatori</u>, Alessandro Conti, Paolo Rota, Yiming Wang, and Elisa Ricci. "Test-Time Zero-Shot Temporal Action Localization". In: *CVPR*. 2024.

[2] Massimo Bosetti, Shibingfeng Zhang, <u>Benedetta Liberatori</u>, Giacomo Zara, Elisa Ricci, and Paolo Rota. "Text-Enhanced Zero-Shot Action Recognition: A training-free approach". In: *ICPR* (2024).

[3] Francesco Laiti, <u>Benedetta Liberatori</u>, Thomas De Min, and Elisa Ricci. "Conditioned Prompt-Optimization for Continual Deepfake Detection". In: *ICPR* (2024).

[4] Luca Zanella*, <u>Benedetta Liberatori</u>*, Willi Menapace, Fabio Poiesi, Yiming Wang, and Elisa Ricci. "Delving into clip latent space for video anomaly recognition". In: *CVIU* (2024).

[5] <u>Benedetta Liberatori</u>, Ciro Antonio Mami, Giovanni Santacatterina, Marco Zullich, and Felice Andrea Pellegrino. "YOLO-Based Face Mask Detection on Low-End Devices Using Pruning and Quantization". In: *MIPRO*. 2022.

ACADEMIC SERVICE

Reviewer: CVPR (2024/2025), ECCV (2024), ICCV (2025), ICMR (2025), NeurIPS (2025).
Outstanding Reviewer: ECCV (2024), CVPR (2025).

INVITED TALKS

DOCTORV SEMINARS, University of Rome Tor Vergata, *Presentation Speaker*		2025
MULTIMODAL WEEKLY WEBINAR, *Presentation Speaker*		2024
COMPUTER VISION TRENTO SYMPOSIUM, *Presentation Speaker*		2024

SCHOLARSHIPS AND AWARDS

2025	ICT DAYS POSTER SESSION: Awarded first prize (€1000) for best presentation at the PhD poster session at the University of Trento.
2023	ICVSS: Admitted to the International Computer Vision Summer School.
2021	FIRST ASCENT: Selected as one of the twenty computer science & software engineering students for the First Ascent event organized by Bending Spoons.
2020 – 2022	SISSA SCHOLARSHIP: Awarded one of the 4 scholarships by SISSA, among the most famous Italian research centers. The scholarship is merit-based and covers full support for two years.
2017 – 2020	B.Sc. EXCELLENCE COURSE: Admitted as one of the 30 members of the Excellence Course within the BSc Degree. The program consisted of additional courses and tests. The grade point average bounded the admission.

LANGUAGES

ITALIAN:	Mothertongue
ENGLISH:	Fluent