

# Ali Abdari

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🐙 GitHub

in LinkedIn



## Education

- 2023 – present     **Ph.D. Student, University of Naples Federico II, University of Udine, Italy** Artificial Intelligence.  
Area: *3D scene and Metaverse Retrieval*  
Supervisor: Prof. Giuseppe Serra
- 2016 – 2019     **M.Sc. Kharazmi University, Iran** Computer Science.  
Thesis title: *Action Recognition in Compressed Video*.  
Supervisor: Prof. Azadeh Mansouri  
GPA: 18.34/20
- 2012 – 2016     **B.Sc. Kharazmi University, Iran** Computer Engineering.  
Thesis title: *Reporting Financial affairs using Business Intelligence*.  
Supervisor: Prof. Zahra Nilfroushan  
GPA: 16.98/20


## Main Publications ([Google Scholar](#))

- 1 A. Abdari, A. Falcon, and G. Serra, “A language-based solution to enable metaverse retrieval,” in *International Conference on Multimedia Modeling*, Springer, 2024, pp. 477–488.
- 2 A. Falcon, B. Portelli, A. Abdari, and G. Serra, “Paving the way for personalized museums tours in the metaverse,” 2024.
- 3 A. Abdari, A. Falcon, and G. Serra, “Farmare: A furniture-aware multi-task methodology for recommending apartments based on the user interests,” in *Proceedings of the IEEE/CVF International Conference on Computer Vision*, 2023, pp. 4293–4303.
- 4 A. Abdari, A. Falcon, and G. Serra, “Metaverse retrieval: Finding the best metaverse environment via language,” in *Proceedings of the 1st International Workshop on Deep Multimodal Learning for Information Retrieval*, 2023, pp. 1–9.
- 5 A. Abdari, P. Amirjan, and A. Mansouri, “Speeding up action recognition using dynamic accumulation of residuals in compressed domain,” 2022.
- 6 A. Abdari, H. Mohammadzade, and S. A. Hashemian, “Trajectory clustering in surveillance videos using dynamic time warping,” in *2021 7th International Conference on Signal Processing and Intelligent Systems (ICSPIS)*, IEEE, 2021, pp. 1–5.
- 7 N. Honarjoo, A. Abdari, and A. Mansouri, “Violence detection using pre-trained models,” in *2021 5th International Conference on Pattern Recognition and Image Analysis (IPRIA)*, IEEE, 2021, pp. 1–4.
- 8 A. Abdari, P. Amirjan, and A. Mansouri, “Action recognition in compressed domain using residual information,” in *2019 4th International Conference on Pattern Recognition and Image Analysis (IPRIA)*, IEEE, 2019, pp. 130–134.

## Other Experiences and Achievements

- 2024     **Organizing CV4Metaverse Workshop at ECCV 2024, Milan, Italy**  
ICVSS Summer School on Computer Vision in the Age of Large Language Models, Sicily, Italy
- 2023     **ELLIS Summer School on Large-Scale AI for Research and Industry, Modena, Italy**






## Other Experiences and Achievements (continued)

- 2016     Got selected among the first four talented students to start the Master's program without any entrance exam






## Professional and Academic Experience

- 2023 – 2024     **Teacher Assistant** of Deep Learning, University of Udine.
- 2021 – 2023     **Computer Vision and Machine Learning Researcher** Kharazmi University and Caica Company.
- 2019 – 2021     **Computer Vision Engineer** Iran's National Elites Foundation.
- 2017 – 2018     **Python Developer** Vestaak
- 2017 – 2019     **Teacher Assistant** of Digital Image Processing, Artificial Neural Network, Kharazmi University.
- 2013 – 2016     **Teacher Assistant** of Data structure, Automata theory, Design and Analysis of Algorithms, Introduction to Programming and Advanced Programming, Kharazmi University.



## Skills

- Languages     English(Fluent, 7.5 IELTS band score), Italian (Pre B2), Persian(Native).
- Coding     Python, C++, C, MATLAB, R, Java, PHP, C Sharp, SQL,  $\text{\LaTeX}$ , Julia
- Databases     MySQL, SQL Server, SQLite, MongoDB.
- Web Dev     HTML, CSS, JavaScript, Bootstrap.
- ML/DL Frameworks     PyTorch, Keras, HuggingFace, OpenCV, Dlib, MediaPipe, NumPy, Pandas, Matplotlib, and SciKit-Learn.

## Projects

- Cross Modal Processing     3D scene Retrieval, Contrastive Learning
- Video Processing     Action Recognition in raw and compressed video, Primates Behaviour Analysis, Traffic Video Analysis, Video Synopsis, Multi-Object Tracking in surveillance videos, Fatigue Detection using eye features
- Natural Language Processing     Text Summarization and text Paraphrase using LLMs
- Image Processing     OCR, Water Marking, Segmentation, Classification
- Miscellaneous     EEG Signal Analysis, Risk assessment in autonomous vehicles, Vehicle position prediction using neural networks, Web Crawling to collect dataset

## References

-  **Prof. Giuseppe Serra**, Associate Professor at University of Udine, Udine, Italy, email: giuseppe.serra@uniud.it
-  **Prof. Azadeh Mansouri**, Assistant Professor at the Department of Electrical and Computer Engineering at Kharazmi University, Tehran, Iran, email: a\_mansouri@khu.ac.ir