

Lorenzo Agnolucci

PhD Student

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Education

- 2021 - Present **PhD in Computer Vision and Artificial Intelligence**, *University of Florence*, Florence, Italy
Topics: Low-level Vision; Image Quality Assessment; Vision and Language; Video Restoration;
- 2019 - 2021 **M.Sc in Computer Science and Engineering**, *University of Florence*, Florence, Italy, Grade: 110/110 cum laude
Thesis: Deep Learning Techniques for Improving Video Visual Quality Using Keyframes
- 2016 - 2019 **B.Sc in Computer Science and Engineering**, *University of Florence*, Florence, Italy, Grade: 110/110 cum laude
Thesis: Localization of Figures in Scientific Articles

Work Experience

- Mar, 2024 - **Research Intern**, *SonyAI*, Tokyo
Sep, 2024 Conducted research on image quality assessment and low-level vision

Publications

- 2024 L. Agnolucci*, A. Baldrati*, M. Bertini, A. Del Bimbo. iSEARLE: Improving Textual Inversion for Zero-Shot Composed Image Retrieval. *Arxiv* (**Under review**).
- 2024 L. Agnolucci, L. Galteri, M. Bertini. Quality-Aware Image-Text Alignment for Real-World Image Quality Assessment. *Arxiv* (**Under review**).
- 2024 L. Agnolucci, L. Galteri, M. Bertini, A. Del Bimbo. ARNIQA: Learning Distortion Manifold for Image Quality Assessment. *Proceedings of the IEEE/CVF Winter Conference on Applications of Computer Vision (WACV Oral)*.
- 2024 L. Agnolucci, L. Galteri, M. Bertini, A. Del Bimbo. Reference-based Restoration of Digitized Analog Videotapes. *Proceedings of the IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)*.
- 2023 A. Baldrati*, L. Agnolucci*, M. Bertini, A. Del Bimbo. Zero-Shot Composed Image Retrieval with Textual Inversion. *International Conference on Computer Vision (ICCV)*.
- 2023 L. Agnolucci*, A. Baldrati*, F. Todino, F. Becattini, M. Bertini, A. Del Bimbo. ECO: Ensembling Context Optimization for Vision-Language Models. *International Conference on Computer Vision Workshop (ICCVW)*.
- 2023 G. Burbi, A. Baldrati, L. Agnolucci, M. Bertini, A. Del Bimbo. Mapping Memes to Words for Multimodal Hateful Meme Classification. *International Conference on Computer Vision Workshop (ICCVW)*.
- 2023 L. Agnolucci, L. Galteri, M. Bertini, A. Del Bimbo. Perceptual Quality Improvement in Video-conferencing using Keyframes-based GAN. *IEEE Transactions on Multimedia (TMM)*.

- 2023 L. Agnolucci*, A. Baldrati*, M. Bertini, A. Del Bimbo. Zero-Shot Image Retrieval with Human Feedback. *Proceedings of the 31st ACM International Conference on Multimedia (ACM MM Demo)*.
- 2022 L. Agnolucci, L. Galteri, M. Bertini, A. Del Bimbo. Restoration of Analog Videos Using Swin-UNet. *Proceedings of the 30th ACM International Conference on Multimedia (ACM MM Demo)*.

* Equal contribution.

Technical skills

Machine Learning Technologies

- PyTorch
- OpenCV
- scikit-learn

Programming Languages

- Python
- Java
- Javascript

Misc

- Git
- NumPy
- Matplotlib

Languages

Italian, Native language

English, Full professional proficiency

Achievements

- 2021 **First Ascent 2021**, *Bending Spoons*, Milan

I was selected by Bending Spoons, one of the world's leading mobile developers by the number of app downloads, to participate in First Ascent, a 3 days event organized in Milan in order to celebrate Italy's top Computer Science students. I was selected among the 20 best students out of more than 500 applicants. Event page: <http://firstascent.io>

Other

- 2022 **Italian state professional information engineer examination**, *University of Florence*
Professional examination prescribed by Italian laws to become a professional engineer

(Last updated: June 2024)