

# FABIO QUATTRINI

PhD Candidate in Computer Vision @ AlmageLab, Modena (MO), Italy

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## RESEARCH INTERESTS

PhD candidate at [AlmageLab](#), supervised by [Prof. Rita Cucchiara](#) and [Dr. Silvia Cascianelli](#). Working on *Computer Vision for Cultural and Historical Multimodal Sources*. Main interest in Vision-Language models, Generative and Document AI.

## EDUCATION

<b>Ph.D. student in Information and Communication Technologies (ICT)</b> <i>AlmageLab, University of Modena and Reggio Emilia</i> Supervisors: <a href="#">Prof. Rita Cucchiara</a> , <a href="#">Dr. Silvia Cascianelli</a> .	01/2023 - 03/2026 Modena, Italy
<b>Master's degree in Computer Engineering   Artificial Intelligence Engineering</b> <i>University of Modena and Reggio Emilia</i> Grade: 110/110 cum laude. GPA: 4.0/4.0. Thesis: Introducing Vision Transformers in DDPMs. <a href="#">[paper]</a>	10/2019 - 12/2022 Modena, Italy

## WORK EXPERIENCE

<b>Applied Scientist Intern</b> CVNA, <a href="#">Amazon</a> <ul style="list-style-type: none"><li>Research on Foundation GenAI models to improve Visual Understanding and Generation in Images with Text.</li><li>Managed project planning. Supervised data collection and annotation team.</li></ul>	September 2024 - March 2025 Berlin, Germany
<b>Research Intern</b> <i>AlmageLab, University of Modena and Reggio Emilia</i> <ul style="list-style-type: none"><li>Implemented and Designed novel Generative Vision Transformer models for Diffusion Image Generation.</li><li>Distributed training of Denoising Diffusion Probabilistic Models. Achieved competitive FID scores.</li></ul>	November 2021 - December 2022 Modena, Italy

## SELECTED PUBLICATIONS (FULL LIST [HERE](#))

**Zero-Shot Styled Text Image Generation, but Make It Autoregressive.** Vittorio Pippi\*, *Fabio Quattrini\**, Silvia Cascianelli, Alessio Tonioni, Rita Cucchiara. CVPR 2024. [\[paper\]](#) [\[code\]](#)

**Alfie: Democratising RGBA Image Generation With No \$\$\$.** *Fabio Quattrini*, Vittorio Pippi, Silvia Cascianelli, Rita Cucchiara. "AI for Visual Arts Workshop" ECCV 2024 (Oral Spotlight, Top-4). [\[paper\]](#) [\[code\]](#)

**Merging and Splitting Diffusion Paths for Semantically Coherent Panoramas.** *Fabio Quattrini*, Vittorio Pippi, Silvia Cascianelli, Rita Cucchiara. ECCV 2024. [\[paper\]](#) [\[code\]](#)

**$\mu$ gat: Improving Single-Page Document Parsing by Providing Multi-Page Context.** *Fabio Quattrini\**, Carmine Zaccagnino\*, Silvia Cascianelli, Rita Cucchiara. "AI for Digital Humanities Workshop" ECCV 2024. [\[paper\]](#) [\[code\]](#)

**Binarizing Documents by Leveraging both Space and Frequency.** *Fabio Quattrini*, Vittorio Pippi, Silvia Cascianelli, Rita Cucchiara. ICDAR 2024 (Oral). [\[paper\]](#) [\[code\]](#)

**HWD: A Novel Evaluation Score for Styled Handwritten Text Generation.** Vittorio Pippi, *Fabio Quattrini*, Silvia Cascianelli, Rita Cucchiara. BMVC 2023. [\[paper\]](#) [\[code\]](#)

**Segmentation-based Low-Resource Text Line Recognition.** Carlos Garrido Munoz, *Fabio Quattrini*, Carmine Zaccagnino, Silvia Cascianelli, Costanza Bianchi, Jorge Calvo-Zaragoza, Rita Cucchiara. *Under Review*.

## AWARDS & CERTIFICATIONS

<b>International Computer Vision Summer School - ICVSS2024</b>	07/2024
<b>Italian Qualification to practice as an Engineer</b>	12/2023
<b>ELLIS Summer School   Large-Scale AI. Best project award. Camera Pose Refinement for Radiance Fields</b>	09/2023
<b>International Summer School on Machine Vision - VISMACH23</b>	09/2023
<b>Kaggle Vesuvius Challenge - Ink Detection   Silver Medal</b>	06/2023

## REVIEWER FOR JOURNALS AND CONFERENCES

ICDAR 2023, ICIAP 2023, BMVC 2023, CVPR 2024, ECCV 2024, BMVC 2024 (Ours.), CVPR 2025 (Ours.), BMVC 2025

## GRANTS

**EuroHPC:** Development and Benchmark grants for research on Infographics Editing with Autoregressive Models.  
**Italian SuperComputing Resource Allocation:** Class C grant to explore efficient training of Generative Models.

## KNOWLEDGE AND COMPUTER SKILLS

**Programming:** Python (Proficiency), Java, C, SQL | PyTorch, NumPy, OpenCV, Pandas, PyRobot, Scikit, Huggingface  
**Miscellaneous:** AWS (EC2, SageMaker, Rekognition), Google Cloud, Slurm, WandB  
**Languages:** English (Fluent), Italian (Mother Tongue), French (Basic)