

FABIO QUATTRINI

PhD Student @ AImageLab, Modena (MO), Italy

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RESEARCH INTERESTS

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

EDUCATION

Ph.D. student in Information and Communication Technologies (ICT) <i>AImageLab, University of Modena and Reggio Emilia</i> Supervisors: Prof. Rita Cucchiara , Dr. Silvia Cascianelli .	01/2023 - 03/2026 Modena, Italy
Master's degree in Computer Engineering Artificial Intelligence Engineering <i>University of Modena and Reggio Emilia</i> Grade: 110/110 cum laude. Thesis: Introducing Vision Transformers in DDPMs. [paper]	10/2019 - 12/2022 Modena, Italy
Bachelor's degree in Computer Engineering <i>University of Modena and Reggio Emilia</i>	09/2016 - 10/2019 Modena, Italy

WORK EXPERIENCE

Applied Scientist Intern CVNA, Amazon	September 2024 - March 2025 Berlin, Germany
<ul style="list-style-type: none">Research on Foundation GenAI models to improve Visual Understanding and Generation in Images with Text.Managed project planning from ideation to completion. Supervised data collection and annotation team.	
Research Intern <i>AImageLab, University of Modena and Reggio Emilia</i>	November 2021 - December 2022 Modena, Italy
<ul style="list-style-type: none">Built NLP and novel Generative Vision Transformers. Trained Denoising Diffusion Probabilistic Models (DDPMs) with distributed computing, achieving competitive Fréchet Inception Distance (FID) scores.	
Technical Assistant Intern <i>Corepixx s.r.l.</i>	Summers 2014 - 2015 Modena, Italy
<ul style="list-style-type: none">Configured client systems, built product demos and interactive technology solutions for digital signage.	

SELECTED PUBLICATIONS

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. [\[paper\]](#) [\[code\]](#)

μgat: 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. [\[paper\]](#) [\[code\]](#)

Volumetric Fast Fourier Convolution for Detecting Ink on the Carbonized Herculaneum Papyri. *Fabio Quattrini*, Vittorio Pippi, Silvia Cascianelli, Rita Cucchiara. "4th ICCV Workshop on e-Heritage", ICCV 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*.

CERTIFICATIONS

International Computer Vision Summer School - ICVSS2024	07/2024
ELLIS Summer School <i>Large-Scale AI for Research and Industry</i>	09/2023
Best project award. ClearView: Camera Pose Refinement for Improved Radiance Fields	Modena, Italy
International Summer School on Machine Vision - VISMACH23	09/2023
Kaggle Vesuvius Challenge - Ink Detection <i>Silver Medal</i>	06/2023

KNOWLEDGE AND COMPUTER SKILLS

Programming: Python (Proficiency), Java, C, SQL | PyTorch, NumPy, OpenCV, Pandas, PyRobot, Scikit, Huggingface

Miscellaneous: AWS (EC2, SageMaker, Rekognition), Slurm, WandB, English (Fluent)