

ALESSIA SAPORITA

Curriculum Vitae

PERSONAL INFORMATION



Last Name: Saporita
First Name: Alessia
Gender: Female
Place of birth: Modena
Date of birth: 01-12-2000
Citizenship: Italian
Address: Via Giuseppe Fava 49
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EDUCATION

Doctor of Philosophy (Ph.D.) in Data Science and Computation *expected 2027*
Univeristy of Bologna

Master Degree in Computer Engineering (LM-32) *9 July 2024*
Univeristy of Modena and Reggio Emilia

Degree mark: 110/110 cum laude

Title of final thesis: *Tackling Unseen Modalities in Vision and Language via Feature Projection*

Bachelor Degree in Computer Engineering (L-8) *14 July 2022*
Univeristy of Modena and Reggio Emilia

Degree mark: 109/110

Title of final thesis: *Convolutional Neural Network and Explainability for Image Classification*

EXPERIENCE/STAGE

Reasearch Fellow

Hosting organization: University of Modena and Reggio Emilia

Location: Modena, Italy

Period: 01/09/2024 – 31/10/2024

Task(s): Development of multimodal frameworks robust to missing modalities.

Internships

Hosting organization: University of Modena and Reggio Emilia

Location: Modena, Italy

Period: 10/12/2023 – 30/05/2024

Task(s): Development of multimodal foundation models to tackle missing and unseen modalities in vision and language tasks.

Internships

Hosting organization: University of Modena and Reggio Emilia

Location: Modena, Italy

Period: 17/03/2022 – 26/06/2022

Task(s): Development of Convolutional Neural Networks for image classification and application of explainability techniques.

PUBLICATIONS

MissRAG: Addressing the Missing Modality Challenge in Multimodal Large Language Models

Authors: Alessia Saporita; Vittorio Pipoli; Federico Bolelli; Lorenzo Baraldi; Costantino Grana; Rita Chicchiara; Elisa Ficarra

IEEE/CVF International Conference on Computer Vision (ICCV)

Honolulu, Hawaii — 19–23 October 2025

Link: <https://iris.unimore.it/handle/11380/1381191>

IM-Fuse: A Mamba-based Fusion Block for Brain Tumor Segmentation with Incomplete Modalities

Authors: Alessia Saporita; Vittorio Pipoli; Kevin Marchesini; Costantino Grana; Elisa Ficarra; Federico Bolelli

28th International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)

Daejeon, South Korea — 23–27 September 2025

Link: <https://iris.unimore.it/handle/11380/1377748>

Tracing Information Flow in LLaMA Vision: A Step Toward Multimodal Understanding

Authors: Alessia Saporita; Vittorio Pipoli; Federico Bolelli; Lorenzo Baraldi; Andrea Acquaviva; Elisa Ficarra

21st International Conference on Computer Analysis of Images and Patterns (CAIP)

Las Palmas de Gran Canaria — 22–25 September 2025

Link: <https://iris.unimore.it/handle/11380/1383028>

PROJECTS

A new approach to image generation in fashion using natural language

Description: The project proposes a pipeline which uses a fine-tuned CLIP model to retrieve a textual description of a given garment and Stable Diffusion to generate a catalog-like photo of a random model wearing it.

Technologies and Tools: Python, Pytorch, Numpy, Pandas.

Link: [git@github.com:alessiasaporita/A-new-approach-to-image-generation-in-fashion-using-natural-language.git](https://github.com:alessiasaporita/A-new-approach-to-image-generation-in-fashion-using-natural-language.git)

MCAT-HViT

Description: The project proposes a weakly-supervised, multimodal learning framework called Multimodal Co-Attention Hierarchical Visual Transformer (MCAT-HViT) that combines histological whole slide images (WSIs) with molecular data for survival prediction.

Technologies and Tools: Python, Pytorch, Numpy, Pandas, Sklearn.

Link: [git@github.com:alessiasaporita/MCAT-HViT.git](https://github.com:alessiasaporita/MCAT-HViT.git)

Harvest Easy

Description: The project designs an innovative waste system that can predict the future filling level of bins, optimize the route to travel to empty the bins, and show in real-time their status by accessing to city map.

Technologies and Tools: Python, Arduino, SQLAlchemy, React, Flask, OpenStreetMap, Openrouteservice, Docker, HTTP

Link: [git@github.com:mich2k/Harvest-Easy.git](https://github.com:mich2k/Harvest-Easy.git)

LANGUAGES

Mother tongue	Italian
English	B2 (FCE)

SKILLS

Programming Languages	Python, C/C++, MATLAB, Java
Machine Learning Tools	Pytorch, Tensorflow, Sklearn, OpenCV, Pandas, Numpy, CUDA