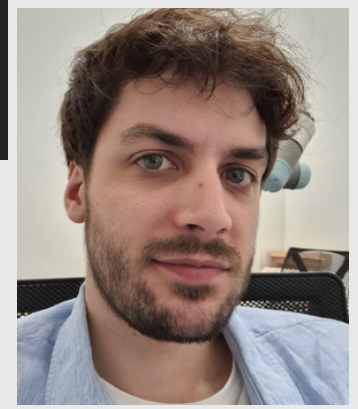


Federico Dassiè



Researcher, developer, and technologist with experience across academia and industry in computer vision, machine learning, robotic manipulation, digital humanities, and AI-driven cultural heritage applications.

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🏠 Godega di Sant'Urbano (TV), Italy

🌐 <https://dassoo.github.io/>

Work Experience

Mar 2024-
Mar 2025

Research Fellow - *Center for Cultural Heritage Technology (CCHT-IIT), Venice (Italy)*

- Designed and implemented robotic manipulation workflows for material transport and scanning (UR, Robotiq).
- Developed 3D reconstruction pipelines leveraging SfM, NerF, and Gaussian Splatting.
- Participated in CTE-Genova project, focusing on the automated digitization of archaeological artifacts.

Feb 2022-
Feb 2024

Python Developer - *Archivè (Fondazione Giorgio Cini), Venice (Italy)*

- Developed automated pipelines for image post-processing and object detection using PyTorch and Detectron2.
- Contributed to the digital preservation of cultural heritage through advanced Computer Vision techniques.

2020-2021

Web Developer - *VeDPH (Venice Center for Digital & Public Humanities), Venice (Italy)*

- Collaborated on the interactive webdoc "[I conti con la Storia](#)", exploring the representation and perception of racial laws in the history of TV and historiography, made for Ca' Foscari University

Education

Ca' Foscari University,
Venice (Italy)

- Master's Degree in Digital & Public Humanities (2022)
- First Level Master in Digital Humanities (2020)
- Bachelor's Degree in History (2019)
- Diploma in Computer Science (2016)

ITST J.F. Kennedy (PN)

Languages

- Italian: native speaker
- English: advanced (C1)
- German: beginner (A2)
- French: beginner (A1)

Technical Skills

Python AI, CV & ML: *OpenCV, Detectron2, Scikit-learn, LangChain/LangGraph (RAG, Agentic AI)*
Frameworks: *Django, FastAPI + Next.js (Typescript)*
Data Analysis: *Pandas, Matplotlib, Seaborn*
3D Reconstruction: *Nerfstudio, COLMAP*

HTML/CSS, Javascript, SQL

Others Web & Multimedia: *Adobe Suite, OBS Studio, Microsoft Office*
Digital Humanities: *Digital epigraphy, paleography, GIS georeferencing*
Robotics: *UR + Robotiq/3D scanners and cameras integration (RTDE, Polyscope), Genesis*
Systems & IT: *Windows/Linux, Networking, SSH, Firewall configuration, VirtualBox, scripting (Bash, Python)*

Publications

- [DARS: A Dual-Arm Robotic System for Autonomous 3D Artifacts Scanning](#) – (submitted to) IEEE/RSI IROS, 2025
- [AAPOE: Automated Artifacts Position and Orientation Estimation in Cultural Heritage](#) – IEEE/ASME MESA, 2024
- [Machine Learning and Computer Vision in the Humanities](#) – Master's Thesis (UniVe), 2022