

Federico Dassìe



I am a programmer with a passion for computer science, history, and geopolitics. I am always looking for new technological solutions and innovative approaches that stimulate my interests. In addition to coding, I am a gamer, an avid reader, and a true information maniac.

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Godega di Sant'Urbano (TV)



<https://dassoo.github.io/>



08/01/1997



Work Experience

2020-2021

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

- Collaboration on the project/webdoc "[I conti con la Storia, le leggi razziali tra televisione e storiografia](#)", published for Ca' Foscari University

Feb 2022-
Feb 2024

Python Developer - ArchiVe (Fondazione Giorgio Cini), Venice

- Development of automated pipelines for image post-production and object recognition (Computer Vision, PyTorch, Detectron)

Mar 2024-
Mar 2025

Research Fellow - Centre for Cultural Heritage Technology (CCHT-IIT), Venezia

- Robotic manipulation for material transport and robotic arm movement (UR, Robotiq) + simulation (Genesis), Computer Vision and 3D reconstruction using cameras, 3D scanners (Artec, Polyga) and various digital reconstruction methods (SfM, NerF, Gaussian Splatting)
- Collaboration with the [CTE-Genova](#) project, aimed at the digital reconstruction of archaeological finds through an automated system for scanning and digitizing objects



Education

ITST J.F. Kennedy (PN)

- Diploma in Computer Science (2016)

Università Ca' Foscari,
Venice

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



Languages

- Italian: native speaker
- English: advanced (C1)



Publications

- A. Babini; F. Dassìe; S. Frascella, Hyperspectral imaging analysis through robotic acquisition, *To be published*, 2025
- J. Ahmad; F. Dassìe; S. Frascella et al., **DARS: A Dual-Arm Robotic System for Autonomous 3D Artifacts Scanning** (Link soon!), *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, 2025
- J. Ahmad; S. Frascella; F. Dassìe et al., **AAPOE: Automated Artifacts Position and Orientation Estimation in Cultural Heritage**, *International Conference on Mechatronic and Embedded Systems and Applications (MESA)*, 2024
- F. Dassìe, **Machine Learning and Computer Vision in the Humanities**, *Università Ca' Foscari (Master's Thesis)*, 2022

Programming

Python

Image Classification, Object Detection e Image Segmentation (OpenCV, Detectron);
Digital 3D Reconstruction (SfM, NerF, Gaussian Splatting);
Robotic arms movement with gripper and simulation (UR RTDE, Polyscope, Genesis);
Data Analysis (Pandas, Matplotlib, Seaborn, sklearn)
Web Development (Django, FastAPI + NextJS)



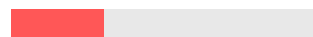
HTML/CSS/Javascript, SQL

HTML5; Bootstrap; Leaflet (mapping to Dante 1491) and other JS libraries; SQL
queries for data selection, relational database knowledge and development



C++, C#

Used mainly to remotely interface with API/SDK for automation of various tools or
development of specific/situational scripts and applications



Systems Engineering

- Operating Systems: Extensive experience with Microsoft Windows and Linux (Ubuntu)
- Networking: knowledge of basic techniques including TCP/IP protocols, DHCP, DNS, as well as network devices (routers, hubs, switches, bridges)
- Security: Firewall regulation, SSH remote access
- Scripting: Python, Bash
- Database/Data Management: SQL
- Problem Solving and Troubleshooting Terminal/CMD/Powershell
- Virtualization: Oracle VirtualBox

Others

- Storyboarding (Wikitude)
 - 3D Modeling (Agisoft Metashape, Artec Studio, Polyga FlexScan, Meshroom)
 - Digital epigraphy, paleography and georeferencing (EVT, GIS)
 - Microsoft Office (Word, Excel, PowerPoint, Access)
 - Editing (Adobe Lightroom, Acrobat DC, OBS Studio)
 - Communication (Discord, Microsoft Teams, Zoom, Google Meet, Team Viewer)
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