

## PERSONAL INFORMATION

## Federico Gerardi

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Date of birth [Redacted] | Nationality [Redacted]

## WORK EXPERIENCE

Mar 2025 – May 2025 **Computer Vision Engineer**

Microsoft &amp; FabLab

Designed and implemented computer vision algorithms for object detection and recognition in robotic navigation, improving real-time perception to enable autonomous movement.

Dec 2024 – Feb 2025 **Computer Scientist**

DTC Lazio

Preparation and management of 3D models for integration and use within a virtual environment. Development of interactions using Unity and MRTK libraries to implement features compatible with Meta Quest 2. Migration of compatibility from Meta Quest 2 to Oculus Quest 3 to enhance user experience and leverage the new hardware capabilities of the latest device, ensuring higher performance and improved visual quality.

## EDUCATION AND TRAINING

2025 **Erasmus+ Scholarship**

University of Oslo, Norway

- Advanced Deep Learning for Image Analysis
- Fog and Cloud Computing
- Models of Concurrency

2024–Present **Master of Science in Computer Science**

Sapienza University of Rome, Italy

- Artificial Intelligence
- Data Science
- Computer Systems

2021–2024 **Bachelor of Science in Computer Engineering**

Sapienza University of Rome, Italy

- Mathematics
- Computer Science
- Physics
- Automation

PERSONAL SKILLS

Mother tongue Italian

Other languages

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
Cambridge First Certificate B2				

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user  
[Common European Framework of Reference for Languages](#)

Technical skills

- **Programming Languages:** Python, Java, JavaScript/TypeScript, SQL, C/C++
- **Databases:** PostgreSQL, MySQL, SQLite, MongoDB, query optimization
- **Web Development:** Django, Flask, React, Node.js, RESTful APIs, HTML/CSS
- **Data Engineering & Processing:** Pandas, NumPy, data cleaning and transformation
- **Cloud & Containers:** Docker, Linux, Git/GitHub, CI/CD workflows
- **Machine Learning:** scikit-learn, PyTorch, TensorFlow, Hugging Face

Driving licence B

PROJECTS

Jun 2025 – Present

**Greek Inscriptions of Turin**

Sapienza University of Rome & Musei Reali di Torino

Developing a pilot digital platform to enhance and promote the Greek inscription heritage of Turin, fostering collaboration between the Department and the Musei Reali di Torino – Museo di Antichità. The project aims to propose a digital strategy for the valorisation, dissemination, and interactive exploration of the city’s Greek epigraphic heritage.

Jun 2025 – Present

**PRIN SeMaTA – Semantic Mapping Through Archives**

Sapienza University of Rome

Developing a Django-based web platform and PostgreSQL database for the PRIN SeMaTA project (“Semantic Mapping Through Archives for the safeguard, valorization, dissemination and transmission of Cultural Heritage in Libya”). The work focuses on implementing GIS technologies for the digital mapping, management, and visualization of textual and multimedia cultural heritage data.

Jan 2025 – Sep 2025

**PRIN Frame Medievalism**

Italian Historical Institute for the Middle Ages

Designed and implemented a web platform and database to analyze Italian Medievalism (1980–present). Developed frontend in React, backend in Express.js, MySQL database, admin panel, and integrated natural language search via Gemini API. Included georeferenced data visualization on a map.

Dec 2024 – Oct 2025

**PRIN MetriCa**

Sapienza University of Rome

Developed a web platform and database for the Metrical Inscriptions of Campania project, enabling interdisciplinary research on over 300 Greek, Latin, and bilingual inscriptions. Built the frontend in React, backend and CMS in JavaScript, and managed the PostgreSQL database.

Mar 2025 – Present

**D.I.V.E.R.S.I.T.Y. – Digital Initiative for Valuing Ethnic Resources and Social Integration through Technology**

DigiLab, Sapienza University of Rome

Developing a web platform for the D.I.V.E.R.S.I.T.Y. project, aimed at the geolocated mapping of ethnic enterprises in Rome and Lazio. The project promotes cultural diversity and social inclusion through technology, supporting diversity management in urban and peri-urban contexts. Responsible for the development of the backend and database architecture.

- Mar 2025 – Present **P.A.S.T. in Coast**  
Centro Universitario Europeo per i Beni Culturali, Ravello  
Developing the technological components of the “P.A.S.T. in Coast” project, focusing on the digitalization of cultural heritage materials, the design and implementation of the database and GIS infrastructure, and the development of digital exhibition solutions such as virtual tours and virtual museums.
- Feb 2025 – Sep 2025 **ArchiPlus Roma**  
OpenHouse Rome  
Developed a web and AR platform for exploring Rome and Lazio’s architectural heritage as part of the Open City Roma App (PNRR, EU-funded). Built frontend in Next.js, implemented AR with AR.js, and included georeferenced map support for site locations.
- Jan 2025 – Feb 2025 **Universitas**  
Sapienza University of Rome  
Developed a repository platform for student projects and theses using Drupal, enabling easy access, organization, and management of academic content.
- Dec 2025 – Feb 2025 **Atlante Pinocchio**  
Sapienza University of Rome  
Developed backend and PostgreSQL database for a research portal tracking translations and reception of Collodi’s Pinocchio in Middle and Far Eastern countries using Django. Integrated georeferenced mapping of translation and editorial data.
- Feb 2025 – Oct 2025 **Persian Dictionary**  
Sapienza University of Rome  
Developed the backend and PostgreSQL database for an Italian–Persian dictionary platform using Django, enabling efficient storage, retrieval, and management of lexical data.
- May 2025 – Jul 2025 **Connected Culture**  
Speha Phresia  
Developed a web platform for exploring Palermo, integrating a rich database of tourist information with georeferenced mapping using OpenStreetMap. Built the frontend in React to provide an interactive and user-friendly experience.
- Dec 2024 – Feb 2025 **Data Tab**  
Sapienza University of Rome  
Developed a database and backend platform for Old Babylonian “temple loan” cuneiform contracts, covering 520 tablets from 21 Mesopotamian cities. Implemented the backend in PHP, MySQL database, and georeferenced mapping support using OpenStreetMap.
- Dec 2024 – Feb 2025 **WikiDTC**  
DTC Lazio  
Developed a web platform aggregating data from the DTC registry database, enabling interactive visualization and filtering through a georeferenced map. Responsible for the full platform development, with a focus on geospatial data handling and map integration.

#### ADDITIONAL INFORMATION

**Publications** *Language Modeling for Epigraphs: a BERT model for EDR’s Latin Epigraphs text completion*, Olmo Ceriotti, **Federico Gerardi**, Saverio Giulio Malatesta, Silvia Orlandi, *IEEE CyberHumanities 2025 - In Press*.

**Certifications** **MongoDB M001 Certificate**  
MongoDB University

**Cisco IT Essentials**

Cisco Networking Academy

### Cisco CyberSecurity Essentials

Cisco Networking Academy

### NDG Linux Unhatched

Cisco Networking Academy

### Django and Python Course

Udemy