Federico Gerardi

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Education

University of Oslo, Erasmus+ Exchange   Aug 2025 – Dec 2025
- **Coursework:** Advanced Deep Learning for Image Analysis, Fog and Cloud Computing, Models of Concurrency

Sapienza University of Rome, M.Sc. in Computer Science   Sept 2024 – Present
- Average: 27.8 / 30
- **Coursework:** Data Science, Artificial Intelligence, Computer Systems

Sapienza University of Rome, B.Sc. in Computer Engineering   Sept 2021 – Oct 2024
- **Thesis:** ⬈ Custom Wireless Joystick Development with Arduino and Linux Integration
- **Coursework:** Mathematics, Computer Science, Physics, Automation

Experience

LeadTheFuture, Mentee   Remote, Italy
- Selected among top Italian STEM students (<20% acceptance) for mentorship by   Oct 2025 – Present
  professionals from Silicon Valley and CERN.

Microsoft & FabLab, Computer Vision Engineer (Project Internship)   Rome, Italy
- Implemented computer vision algorithms for **object detection and recognition** in   Mar 2025 – May 2025
  robotic navigation

DigiLab Sapienza, Research Assistant   Rome, Italy
- Conducted research in **AI, NLP, and Computer Vision** applied to Cultural Heritage   Dec 2024 – Present

Publications

**Language Modeling for Epigraphs: a BERT model for EDR's Latin Epigraphs text   Sep 2025
completion**

Olmo Ceriotti, *Federico Gerardi*, Saverio Giulio Malatesta, Silvia Orlandi @ *IEEE CyberHumanities 2025 - In Press*

Research Projects

Graph Attention Networks for Interpretable Expected Goals Analysis in Soccer   2025
- Developed a Graph Attention Network with a novel attention mechanism to predict and interpret expected goals in
  soccer using PyTorch and StatsBomb data.

Computer vision based artist attribution for sculptures   2025
- Implemented Prototypical Networks for artist attribution of sculptures, outperforming CNNs and Vision Transformers
  with a 0.8 F1-score. Supervised by Prof. Marco Raoul Marini.

SOFA: Step-on-Foot Analyzer for Football Refereeing   Link ⬈ 2025
- Built an automated system using YOLO and segmentation models to detect "step-on-foot" fouls in soccer, minimizing
  referee subjectivity. Supervised by Prof. Marco Raoul Marini.

Technical Skills

Programming Languages: Python, C++, C, Java, JavaScript/TypeScript
Machine Learning & Computer Vision: PyTorch, TensorFlow, scikit-learn, OpenCV
Data Management: SQL, Pandas,
Tools & Platforms: Docker, Git/GitHub, Linux, LaTeX, Jupyter, NumPy, Matplotlib

Languages

Italian: Native
English: Cambridge B2