

## PERSONAL INFORMATION

Davide Gabrielli

**PROFILE** PhD student in Computer Science at Sapienza University of Rome, focusing on **interpretable and trustworthy AI for healthcare**.

**RESEARCH INTERESTS** Interpretable AI, time-series analysis, generative and flow-based models, explainable and robust machine learning.

## RESEARCH EXPERIENCE

Apr 2024 – Aug 2025 **Junior Researcher (BS-Junior Scholarship Recipient)**  
Department of Computer Science, Sapienza University of Rome

## EDUCATION AND TRAINING

Nov 2024 – Present **PhD in Computer Science**  
Sapienza University of Rome

Sept 2022 – Oct 2024 **Master's Degree in Computer Science**  
Sapienza University of Rome – 110/110 with honors

Sept 2019 – Oct 2022 **Bachelor's Degree in Computer Science**  
Sapienza University of Rome – 110/110 with honors

## PROJECTS AND COLLABORATIONS

@HOME Project (2023–2025) **AI and IoT for Home Care Monitoring of the Elderly**  
Regione Lazio PR FESR 2021–2027

OmnAI Lab Collaboration **Interpretability and Invertibility of LLMs**

## PUBLICATIONS

- [1] Davide Gabrielli, Bardh Prenkaj, Paola Velardi, and Stefano Faralli. *AI on the Pulse: Real-Time Health Anomaly Detection with Wearable and Ambient Intelligence*. **Accepted to CIKM 2025**. 2025. arXiv: 2508.03436 [cs.LG].
- [2] Davide Gabrielli, Bardh Prenkaj, and Paola Velardi. *Seamless Monitoring of Stress Levels Leveraging a Universal Model for Time Sequences*. **Under second stage review for Artificial Intelligence in Medicine**. 2025. arXiv: 2407.03821 [cs.LG].
- [3] Davide Gabrielli, Simone Sestito, and Iacopo Masi. *Inverse Language Modeling towards Robust and Grounded LLMs*. 2025. arXiv: 2510.01929 [cs.CL].

## TECHNICAL SKILLS

Time-series analysis, interpretable AI, generative models, Python, PyTorch, TensorFlow, Docker, AWS.

## CONFERENCES AND PRESENTATIONS

Poster Presentation: *AI on the Pulse*, ACM CIKM 2025, Seoul, Korea.  
Speaker: "Patient Remote Monitoring for Anomaly Detection", Summer School 2025 – "One Health for Healthy Aging and Sustainable Futures", Heimerer College, Prishtina (Kosovo)

## LANGUAGE SKILLS

Mother tongue Italian

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1

## DISCLAIMER FOR WEB PUBLICATION

I authorize the processing of my personal data in accordance with Legislative Decree No. 196 of June 30, 2003 ('Personal Data Protection Code'), as amended by Legislative Decree No. 101/2018, and in compliance with EU Regulation 2016/679 (GDPR). I, the undersigned, declare that I am aware that this curriculum vitae will be published on the institutional website of the University, in the 'Transparent Administration' section, in the manner and for the duration provided for by Legislative Decree No. 33/2013, Article 15.

Rome, November 20, 2025