

## 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

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PUBLICATION

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**Rome, November 20, 2025**