

Andrea Gallegati, Ph.D

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EXPERIENCE

Leonardo – Cyber & Security Solutions

Digital Technology Strategy Specialist

Dec 2025 – Ongoing

- Applied R&D within the **Product & Technology Innovation business unit** and PoC development up to TRL 5–6.
- Cross-domain synergies** with the Cyber Threat Intelligence, Post-Quantum Cryptography, and the Artificial Intelligence laboratories.
- Zero Trust (ZTA) and data-centric security (DCS) architectures**, secure-by-design cloud and tactical edge solutions.
- Technical integration** of Axiomatics PDP and the PrivX PAM by SSH, aligning architectural governance.
- Peer-reviewing scientific papers on **Security and Privacy**.

Project Management Cloud Edge Computing AI

IDS AirNav – ENAV Group

AI Chapter & Collaborative Design Chapter Member

Mar 2025 – Dec 2025

Bridge internal knowledge gaps and **define the AI Value Proposition** for the organization. Researching and proposing high-impact **AI use cases (RAG, Open-Source LLMs, MCP servers)**, e.g. to automate system log analysis and technical/security documentation (Threat Modeling, Gap Analysis).

Artificial Intelligence RAI MLOps Fine Tuning RAG

Secure-SDLC Engineer (appointed Security Champion)

Apr 2021 – Dec 2025

Support the Product Security Manager by helping implement and uphold policies and procedures, monitor security reports through weekly (SAL) meetings, and **fulfill the annual goals declared in the Security Management Plan**. The Product Security Manager and the Security Champions are the “Competence Center” for the Security domain.

Threat Modeling SCA SAST CI/CD GDPR NIS2

Sapienza University

PhD Researcher in HPC & Teaching Assistant

Sep 2017 – Jan 2021

- Advanced research leveraging **High Performance Computing (HPC) infrastructures**, across **distributed architectures**.
- Mentored six students contributing to the research programme, **supervising thesis projects in parallel computing**.
- TAing many different classes, besides Aerodynamics Labs.

Research Team Leading Mentoring HPC Agile

PROJECTS

Temple University - Rome Campus

walkintiber - 3D Digital Twin of Rome

Aug 2024 – Present

- Co-founded an immersive 3D model of Rome, allowing users to explore the city virtually via a web interface.
- Built a pipeline integrating live data from Open-StreetMap (OSM) to continuously update and enhance the model with realistic textures and digital elevation, supported by generative AI.
- Engaged TUR students and faculty in "walks in Rome" for hands-on learning in data mapping and VR technologies.

EDUCATION

Sapienza University – DIMA

Ph.D. in Theoretical & Applied Mechanics

Nov 2017 – May 2021

“Droplet condensation in turbulent jets.”

HPC MPI C Multiphase Flows

Sapienza University – DIMA

M.Sc. in Aeronautical Engineering

Sept 2014 – July 2017

“A consistent framework for mass, momentum and energy exchange in two phase flows: DNS of a turbulent jet in the two-way coupling regime.”

110/110 cum laude

Fortran PDE Navier-Stokes Eqs.

ISAE Supaero – DAEP

Erasmus+ Program

Jan 2016 – Aug 2016 Toulouse, FRA

“Cost versus accuracy in LES of wall bounded flows in CharlesX.”

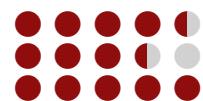
python C++ bash French

LANGUAGES

English (Full Professional)

French

Italian (Native)



Last updated: February 18, 2026