

# Andrea Gallegati, Ph.D

## CSSLP – DevSecOps Engineer @ IDS AirNav – ENAV Group

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### EXPERIENCE

#### IDS AirNav – ENAV Group

##### DevSecOps Engineer

Apr 2021 – Ongoing

- Appointed Security Champion, involved in DevSecOps & automation to streamline Non-functional requirements.
- Developed a web-based migration tool in Python as part of the team maintaining the new IAM solution. Worked on several performance enhancements for the product suite.

Java   Spring Boot   Kafka   python   Django   JS   bash  
Docker   Jenkins   Ansible   OWASP   CIS   Keycloak

#### Temple University – Rome Campus

##### Adjunct Instructor

Jan 2018 – Ongoing

- Teaching several classes, including Problem Solving & Python.

Teaching   Planning   Public speaking   English

#### Cybertech.eu – Engineering

##### System Analyst Intern

Apr 2021 – Apr 2021

#### Accenture Technology

##### Software Developer Intern

Dec 2020 – Mar 2021

#### Sapienza University

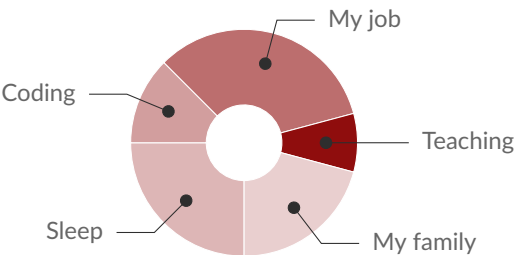
##### PhD Researcher & Teaching Assistant

Sep 2017 – Jan 2021

- Conducting my research project, working with a few students each year, that contributed to my own project.
- TAing many classes, besides Aerodynamics Labs.

Research   Team Leading   Mentoring   Git   Agile

### A DAY OF MY LIFE



### 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 OpenStreetMap (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: May 25, 2025