

Andrea Gallegati

Aerospace Engineer – IT & HPC

Registered Professional – Rome **reg 37845 section A**

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Date of Birth: 27/01/1993

LANGUAGES

English: level C2

French: level C2

Italian: native speaker

COMPUTING

Operating system:

Linux (Debian/Kali/CentOS)

UNIX, MS Windows

Programming:

C, C++, PYTHON, bash, m4

JAVA, SQL, CSS, HTML, JSON

OPENMP, MPI, GNU Makefile

CMake, FORTRAN, L^AT_EX

MATLAB & Simulink, VTK

Software:

Git, VS Code, Virtual Box, Docker

CATIA, OPENFOAM, XFOIL

Nastran & Patran (MSC), Slack

Tecplot 360, Paraview, MS Office

PROJECTS & COLLABORATIONS

- 2021 – ITA **Java Academy**, Accenture – **Java SE/EE, PL/SQL**
- 2020 – ITA **inthepipeline.net**, dashboard/web **page** – **HTML, CSS**
- 2020 – ITA **.galledanza**, self-installing **package** – **bash, m4, here-document**
- 2020 – ITA **Supervision** of seven undergraduates – **git, GitHub, GitLab, Slack**
- 2019 – ITA **SuperLU**, general purpose **library** – **C, JSON, CMake**
- 2019 – ITA **AeroSolved**, open source **code** – **OpenFOAM, C++, Docker**
- 2018 – ITA **Tornado 3D**, open source **code** – **Matlab, XFOIL**
- 2018 – ITA **piggasso**, matplotlib **library** – **python, VTK**
- 2017 – ITA **CyCLoNE**, proprietary code – **C, Fortran, Makefile, m4, VTK**
- 2016 – FRA **CharlesX**, proprietary code – **C++, bash, python**
- 2016 – FRA **Fighter Aircraft**, preliminary design – **CATIA, Nastran & Patran**
- 2015 – USA **CROPP**, startup elevator pitch – **FIU & University of Miami**
SpaceX launch attendance – Cape Canaveral Kennedy Space Center.
EXPO invitation by the U.S. Embassy – **USA Pavilion**
- 2014 – ITA **Functional Analysis**, BSc **thesis** – **Matlab, L^AT_EX**
- 2014 – ITA **Mini-Rocket**, design/launch – **Matlab & Simulink**

EDUCATIONAL BACKGROUND

- 2020 – ITA **PhD**, THEORETICAL & APPLIED MECHANICS
- 2018 – ITA **Professional License**, senior Engineer section A
- 2017 – ITA **MSc**, AERONAUTICAL ENGINEERING – IIO/IIO cum laude
- 2016 – FRA **Erasmus⁺** exchange program – ISAE *Supaero Toulouse*
- 2014 – ITA **BSc**, AEROSPACE ENGINEERING – IIO/IIO cum laude
- 2011 – ITA **High School Diploma**, SCIENTIFIC CURRICULUM

PUBLICATIONS & TALKS

- 2020 – ENG ERCO vol. 27 **Springer Book** Chapt. – Direct & Large Eddy Simulation XII
2019 – ITA XXIV Congress **AIMETA 2019** – Ass. Italiana Mecc. Teorica e App. (Rome)
2019 – ENG EUROMECH Conference **ETC17** – European Turbulence Conference (Turin)
2019 – ENG ERCOFTAC Workshop **DLES12** – Direct & Large Eddy Simulation (Madrid)

TEACHING ACTIVITIES

- 2019 – 2021 ENG **Adjunct Lecturer** in Mechanics of Solids – **Temple Rome**
2019 – 2020 ITA **Teaching assistant** in CFD laboratory – **Sapienza**
2018 – 2020 ITA **Teaching assistant** in Mathematical analysis – **Sapienza**
2018 – 2020 ITA **Teaching assistant** in Linear algebra – **Sapienza**
2018 ENG **Teaching assistant** in Mechanics of Solids – **Temple Rome**

WORKSHOPS & COURSES

- 2020 – ENG Reproducible computational environments using containers
2019 – ITA Introduction to Scientific and Technical Computing in C
2018 – ITA HPC methods for Computational Fluid Dynamics and Astrophysics
2018 – ITA High Performance Molecular Dynamics
2018 – ITA Introduction to modern Fortran
2017 – ITA Debugging and Optimization of Scientific Applications
2017 – ITA Introduction to Parallel Computing with MPI and OpenMP
2017 – ITA Introduction to Marconi KNL cluster for users and developers

INTERESTS & ACTIVITIES

Tennis, Waterpolo, Sailing, Kayak
Photography, Movies, Theater

REFERENCES

Prof. Andrea Dall'Aglio
dallaglio@mat.uniroma1.it

Prof. Mary Conran
mconran@temple.edu

Prof. Carlo Massimo Casciola
carlomassimo.casciola@uniroma1.it

Prof. Paolo Gaudenzi
paolo.gaudenzi@uniroma1.it

HONORS & AWARDS

- 2018 – 2020 **ISCRA C** project winner – HPC Resources on **Cineca** facilities
2018 **Excellent graduate** student (6th ed.) – Fondazione Roma Sapienza
Awarded among the best graduates of 2017 at Sapienza
2015 **NASA Hackathon** – International Space Apps Challenge Winner
Cultures Risks Observation & Prevention Platform (CROPP)

Last updated on February 14, 2021