Mario Papa

WORK EXPERIENCE

Visiting scientist
Eumetsat [17/06/2018 – 07/09/2018]

Address: Darmstadt (Germany)

Software development for geolocation of LEO satellite data from next-generation millimeter-wave radiometers

System analyst
Eumetnet/Geo-K [01/12/2015 – 30/09/2017]

Address: Pratica di Mare (Rome) (Italy)

SRNWP-EPS II EUMETNET Fellowship:

- Collaboration with Italian Air Force at Mario De Bernardi Airport (Pratica di Mare, Rome, Italy) in order to develop software for weather hazards, like thunderstorm and fog.

- Use supercomputer, Fortran and C++

- Participations and presentations in some European conferences and meetings

Researcher
Euro-Mediterranean Center on Climate Change (CMCC) [01/06/2015 – 30/11/2015]

Address: Capua (Italy)

- Software development for weather alerts in the cockpit of aircraft.

- Use of supercomputer and use of the dynamic model for weather forecast (COSMO-LM). Participation in the COSMO general meeting in 2015 in Wroclaw (Poland).

- Project Wat-Ener-Cast: software development for weather forecasts with statistical downscaling.

- Some experiences in the wind tunnel of the Italian Aerospace Research Center performed with PIV (Particle Imagery Velocimety).

Internship

Italian Aerospace Research Center [09/2014 – 05/2015]

Address: Capua (Italy)

During the internship I did a thesis on airborne weather radar developing a simulator for weather radar signal and weather radar imagery.

EDUCATION AND TRAINING

PhD

University of Rome "Sapienza" [01/10/2017 – 31/10/2020]

Address: Rome (Italy)
Level in EQF: EQF level 8

PhD in INFORMATION AND COMMUNICATIONS TECHNOLOGIES (ICT).

- Geolocating Low-Earth-Orbit satellite data from next-generation millimeter-wave radiometers using natural targets.
- Calibration techniques based on Moon target emission
- Numerical simulation of radiometric imagery using radiative transfer models

License for fly with ultralight powered aircraft (VDS license).

[03/2007 – Current]

Master course in Aeronautical Engineering

University of Rome "Sapienza" [09/2012 – 05/2015]

Address: Rome (Italy)
Level in EQF: EQF level 7

Final mark: 110/110

Specialization : Aerodynamics and structure

Thesis title: Airborne X-band weather radar for autonomous safe flight: system analysis and numerical simulation

During the course I also run several aerodynamic tests with Particle Image Velocimetry (PIV), Hot Wire Anemometry (HWA) and Ultrasonic Anemometer (UA).

Bachelor's degree in Aerospace Engineering

University of Rome "Sapienza" [09/2009 – 10/2012]

Address: Rome (Italy)
Level in EQF: EQF level 6

Final mark: 110/110 cum Laude

Technical Diploma in Aeronautical Construction
Industrial and technical institute Don G. Morosini [09/2004 – 07/2009]

Address: Ferentino (Italy)
Level in EQF: EQF level 4

Final mark: 100/100 cum Laude

Experience with lathe and milling machine and basic knowledge of computer numerical control (CNC) machines (scholastic knowledge).

LANGUAGE SKILLS

Mother tongue(s):

Italian

Other language(s):

English

LISTENING B2 **READING** B2 **WRITING** B2

SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** B2

DRIVING LICENCE

Driving Licence: A
Driving Licence: B

ORGANISATIONAL SKILLS

Organisational skills

Excellent ability to work in teams, work organization and meeting deadlines and tasks. Good problem solving skills and excellent interpersonal and communication skills,