europass

Giulia Moretti

Date of birth: 18/08/1997 | **Place of birth:** Vibo Valentia, Italy | **Nationality:** Italian |

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ABOUT ME

Space and Astronautical engineer with working experience.
Ph.D. Candidate in Aeronautical and Space Engineering at "Sapienza Università di Roma".

I am a curious person, thrilled by scientific issues and devoted to exploration. Pragmatic, meticulous and focused in carrying out projects and goals. A challenging problem is what motivates me the most.

EDUCATION AND TRAINING

01/11/2025 – CURRENT Roma, Italy
PH.D. AERONAUTICAL AND SPACE ENGINEERING Sapienza Università di Roma

2019 – 10/2022 Roma, Italy
M.SC. SPACE AND ASTRONAUTICAL ENGINEERING Sapienza Università di Roma

Final grade 109/110 | **Thesis** Optimization of an offline correlator-combiner for antenna array

09/2016 – 12/2019
B.SC. AEROSPACE ENGINEERING Sapienza Univeristà di Roma

Final grade 108/109 | **Thesis** First characterization of the next generation lunar laser retroflector, MoonLIGHT

2011 – 2016
HIGH SCHOOL DIPLOMA Liceo Scientifico Benedetto Croce

Final grade 100/100

WORK EXPERIENCE

ARPSOFT S.R.L. – ROMA, ITALY
Business or Sector Professional, scientific and technical activities

SPACE AND ASTRONAUTICAL ENGINEER – 11/2022 – CURRENT

Work focused on antenna arraying techniques, link budget and radiofrequency interference analysis, with a particular emphasis on optimized implementations.

- Within the project with ESA "OFF-A : "**Offline Antenna Correlator for EnVision"** , I participated in the research, implementation and integration phases of a space-software tool until deployment.
- Within the **Entourage** project, I partecipated in the development of a spectrum assestment software tool designed to provide statistical analysis of radio frequency interference for GSO and NGSO.

ARPSOFT S.R.L. – ROMA, ITALY

STUDENT INTERNSHIP – 04/2022 – 10/2022

Research and studies for my **Master's dissertation**. I collaborated during the preliminary design of a software correlator-combiner for antenna array, with offline and eventually real time applications.

ISTITUTO NAZIONALE DI FISICA NUCLEARE (INFN), SCF_LAB – FRASCATI, ROMA, ITALY

STUDENT INTERNSHIP – 12/2021 – 03/2022

Working on the Dual Pointing Actuator for **MoonLIGHT** payload. Focus on the Earth position in azimuth and elevation with respect to the landing site and the local frame onboard.

ISTITUTO NAZIONALE DI FISICA NUCLEARE (INFN), SCF_LAB – FRASCATI, ROMA, ITALY

BACHELOR'S STUDENT INTERNSHIP – 05/2019 – 12/2019

Participation in the test campaign to evaluate the optical performances of **Cube Corner Retroreflectors** for satellite and lunar laser ranging (LARES-2 and MoonLIGHT).

LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s): **SPANISH**

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	C1	B2	B2	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

Programming Languages

Fortran | C/C++ | Python | Matlab

Operating Systems

macOS | Linux | Windows

Others

Microsoft Office | LaTeX | Git | Catia | Solid Edge

Soft Skills

Adaptive and ready to learn attitude | Team working | Problem solving oriented

PUBLICATIONS

2024

OFF-A: software offline correlator for antenna array

75th International Astronautical Congress (IAC), Milan, Italy, 14-18 October 2024

Authors: A. Ardito, A. Aroumont, F. Barbaglio, M. Battaglioni, E. Bini, S. Finocchiaro, M. Lanucara, A. Løfaldlid, P. Maguire, S. Martid, M. Mattioli, M. Menapace, S. Milani, M. Montagna, G. Moretti, A. Parmeggiani, J. Quintanilla

2022

Design of an offline antenna correlator for EnVision

9th ESA International Workshop on Traching, Telemetry and Command Systems for Space Applications (TT&C 2022)

Authors: A. Ardito, A. Aroumont, F. Barbaglio, M. Battaglioni, S. Finocchiaro, P. Maguire, S. Marti, M. Mattioli, S. Milani, G. Moretti

2021

Geopolitics on moon rare earth elements

Analysis on the availability of rare earth elements on the Moon. Conducted during an University team's project.

Journal Name: Airpress-118

HOBBIES AND INTERESTS

Nature and hiking

I love spending time in uncontaminated areas, it gives me happiness and it is the best way to restore my mind and make decisions.

Reading

DRIVING LICENCE

Driving Licence: B