

EUROPEAN
CURRICULUM VITAE
FORMAT



PERSONAL INFORMATION

Name **DORIA, IRENE**
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Nationality Italian
Date of Birth 08/04/1998 (8th April 1998)
Gender Female

EDUCATION AND TRAINING

- Dates (from - to) 2012-2017: Scientific High School at Istituto Salesiano Villa Sora in Frascati, grade at the final exam 100/100 cum laude
2017: MIUR Award for Excellences Valorisation (for High School diploma cum laude)
2017-2020: Bachelor course in Aerospace Engineering at La Sapienza University of Rome
2020-2022: Master course in Space and Astronautical Engineering at La Sapienza University of Rome
2022: participation to the "Path of Excellence" within the Master course
2022-present: PhD in Aeronautical and Space Engineering at La Sapienza University of Rome
- Name and type of organisation providing education and training See above
- Principal subjects/occupational skills covered Subjects in the space sector: space environment, systems for space exploration, space flight mechanics, control systems, gasdynamics, space missions and systems, space structures, rocket propulsion, interplanetary trajectories, space robotic systems, technology of aerospace materials, elaboration of radar images, advanced spacecraft dynamics, human factors
- Title of qualification awarded 2020: Dottore in Ingegneria Aerospaziale with a grade of 110/110 cum laude with the thesis "Ambiente di radiazione di un orbiter di Giove con flyby multipli di Io" (Radiation environment for a Jupiter's orbiter with multiple flybys of Io)
2022: Dottore magistrale in Ingegneria Spaziale e Astronautica with a grade of 110/110 cum laude with the thesis "Probing the solar corona with Doppler and range measurements of the spacecraft BepiColombo"
- Level in national or international classification (if relevant) Dottore in Ingegneria Aerospaziale corresponds to Bachelor degree in Aerospace Engineering
Dottore magistrale in Ingegneria Spaziale e Astronautica corresponds to Master degree in Space and Astronautical Engineering

PERSONAL SKILLS AND COMPETENCES

Acquired in the course of life and career but not necessarily covered by formal certificates and diplomas..

MOTHER TONGUE

ITALIAN

OTHER LANGUAGES

- Reading
- Writing
- Speaking
- Listening

English (Cambridge Advanced certification)

ADVANCED LEVEL (C1)

PROFICIENCY LEVEL (C2)

ADVANCED LEVEL (C1)

ADVANCED LEVEL (C1)

- Reading
- Writing
- Speaking

French (no certification)

INTERMEDIATE LEVEL (EQUIVALENT TO B1)

INTERMEDIATE LEVEL (EQUIVALENT TO B1)

INTERMEDIATE LEVEL (EQUIVALENT TO B1)

- Reading
- Listening

Portuguese (no certification)

BASIC LEVEL

BASIC LEVEL

SOCIAL SKILLS

AND COMPETENCES

Living and working with other people, in multicultural environments, in positions where communication is important and situations where teamwork is essential (for example culture and sports), etc.

TEAMWORK EXPERIENCE ACQUIRED FROM:

- PROJECTS IN UNIVERSITY COURSES: ANALYSIS AND DESIGN OF A MODEL ROCKET (COMPARISON OF PERFORMANCES WITH DIFFERENT SOLID MOTORS); CONCEPT STUDY OF A PRE-PHASE A FOR A SPACE MISSION WITH THE AIM OF STUDYING THE OCEANIC CURRENTS, ESPECIALLY THE GULF STREAM (THE MISSION HAS BEEN CHOSEN AUTONOMOUSLY BY OUR TEAM); TRAJECTORY GENERATION AND CONTROL SCHEME DESIGN FOR A SPACE MANIPULATOR
- PARTICIPATION IN SAPIENZA AEROSPACE STUDENT ASSOCIATION (SASA) TECHNOLOGY TEAM (2019-2022) FOR THE DEVELOPMENT AND BUILDING OF A ROVER (SOFTWARE SUBSYSTEM); THE TEAM IS HETEROGENEOUS, WITH PEOPLE FROM DIFFERENT UNIVERSITY FACULTIES
- PARTICIPATION IN THE ACTIVITIES OF THE S5LAB (SAPIENZA SPACE SYSTEM AND SPACE SURVEILLANCE LABORATORY), IN PARTICULAR IN THE "NIBBIO" (NAVIGAZIONE IBRIDA CON SENSORI A BASSO COSTO E BUS DATI DI CLASSE INDUSTRIALE/COMMERCIALE) PROJECT (2021-2022), WHOSE AIM IS TO DESIGN AN INERTIAL PLATFORM WITH IMUS AND GPS (COTS) FOR THE LAUNCHER VEGA

I ALSO PLAY IN A JAZZ BAND AS A SAXOPHONE PLAYER

TECHNICAL SKILLS

AND COMPETENCES

With computers, specific kinds of equipment, machinery, etc.

VERY GOOD MATLAB PROGRAMMING SKILLS ACQUIRED IN A SPECIFIC COURSE AT UNIVERSITY

GOOD PYTHON PROGRAMMING SKILLS

BASIC KNOWLEDGE OF ARDUINO

EXPERIENCE IN THE USAGE OF MICROSOFT OFFICE

LABORATORY EXPERIENCE IN: ELECTRONICS (OPERATIONAL AMPLIFIERS), OPTICAL MEASUREMENTS (WITH THE COURSE OF PHYSICS 2) AND PERMEABILITY TEST FOR A POLYMERIC TEXTILE

KNOWLEDGE OF THE SOFTWARES: DIGIMAT AND ABAQUS (FROM THE COURSE IN TECHNOLOGY OF AEROSPACE MATERIALS), SPENVIS (USED DURING THE BACHELOR'S THESIS) AND SOLID EDGE (FROM THE COURSE OF APPLIED MECHANICS AND DESIGN)

ARTISTIC SKILLS AND COMPETENCES

Music, writing, design, etc.

11-YEARS EXPERIENCE IN PLAYING SAXOPHONE (AS A SOLOIST AND IN A BAND)

GOOD SKILLS IN DRAWING

OTHER SKILLS

SPORTS:

- Swimming until the age of 10

AND COMPETENCES

Competences not mentioned above.

- Athletics from the age of 11 to 16
- Canoeing (Olympic kayak) and Dragon Boat from the age of 17 up to present, with some good results in canoeing at a national level (3 bronze medals in k4 and in k1 in 2020) and great results in Dragon Boat both at national (Italian champion in 2020 and 2021) and international level (gold, silver and bronze medals at the European championships in 2022; silver and bronze medals at the European Championships in 2018)

DRIVING LICENCE(S)

A1 (motorcycle up to 125 c.c.), B (car up to 3.5 tons)

ADDITIONAL INFORMATION

HOBBIES:

- Travelling and discovering new cultures
- Reading books especially science fiction, fantasy, adventure and detective stories
- Visiting museums and art exhibitions