



Carolina Ghini

ABOUT ME

You can provide a description of yourself here...

EDUCATION AND TRAINING

09/2018 – 10/2022 Rome, Italy

● **Bachelor's degree in Space and Astronautical Engineering** Sa

10/2022 – CURRENT Rome, Italy

● **Master's degree in Space and Astronautical Engineering** Sapi

09/2021 – CURRENT Rome, Italy

● **Work at Sapienza Space Surveillance and Space Systems Labo**
University of Rome

- Worked on optical telescopes building up an observatory
- Took part in the project of analog missions GEA
- Experience in mission analysis (for Earth Observation and telecommunicati
- Experience in brightness reflectance estimation with the use of an experim
- Participation, resulting in a win, at the 8th Mission Idea Contest
- Matlab usage and applications to different research topics

LANGUAGE SKILLS

MOTHER TONGUE(S): Italian

Other language(s):

English

Listening B2

Reading B2

Writing B2

Spoken production B2

Spoken interaction B2

Japanese

Listening A1

Reading A1

Spoken production A1

Spoken interaction A1

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

ADDITIONAL INFORMATION

Publications

● **Lessons learned from the first student-led Sapienza GEA cave exploration**

IAC-22,E1,4,14,x73748

● **Nano-satellites with Light-Emitting Diodes (LEDs) for optical monitoring i**
reconnessaince of in-orbit payloads

Add a description here...

44th COSPAR Scientific Assembly, 2022cosp...44.1997M

Conferences and seminars

18/07/2022 – 20/07/2022 Athens, Greece

● **44th COSPAR Scientific Assembly** Poster Session for the paper "Nano-satellit
(LEDs) for optical monitoring improvement and reconnessaince of in-orbit pay

17/07/2023 – 23/09/2023 Paris, France

International Astronautical Congress (IAC) 2022 Oral presentation of the paper "Lessons learned from the first student-led Sapienza GEA cave exploration analog mission"

IAC-22,E1,4,14,x73748

02/10/2023 – 06/10/2023 Baku, Azerbaijan

International Astronautical Congress (IAC) 2023 Main Author:

1. "Spacecraft reflectance experimental facility for Space Traffic Management and brightness estimation: lessons learned from HELIOS at S5Lab."

Others:

1. "Satellites reflectance and brightness testing facility for reducing spacecraft constellations light pollution."
2. "Advances in spaceborne LED payloads attitude determination and autonomous units design for Space Traffic Management."
3. "Lunar lava tube infrastructure and innovative technologies testing through speleology analog mission: the Sapienza GEA project."

28/11/2023 – 01/12/2023 Tokyo, Japan

UNISEC - 8th Mission Idea Contest (MIC) Participation at the UNISEC conference with the participation, presentation and win of the project MOTHS (Moon Observation Through Hyperspectral Satellites) at the Mission Idea Contest.
