



Andrea Sesta

Nationality: Italian **Date of birth:** 26/07/1997

✉ **Email address:** andrea.sesta@uniroma1.it

WORK EXPERIENCE

Ph.D. student in Space Engineering

Sapienza University [11/2021 – Current]

City: Rome

Country: Italy

Email address: andrea.sesta@uniroma1.it

Name of unit or department: DIMA

Research theme: Orbit Determination for a Lunar Radio Navigation System (LRNS) within the ESA Moonlight Project

EDUCATION AND TRAINING

Master Degree

Sapienza University [2019 – 2021]

Field(s) of study: Space and Astronautical Engineering

Final grade: 110/110 Cum laude

Thesis: Navigation system based on Doppler measurement in Martian environment

- Space missions and systems
- Space robotic systems
- Advanced spacecraft dynamics

Diploma "Global Studies: politica, economia e cultura"

University College Lamaro Pozzani [2019 – 2021]

Field(s) of study: Business, administration and law

Bachelor Degree

Sapienza University [2016 – 2019]

Field(s) of study: Aerospace Engineering

Final grade: 110/110 Cum laude

Thesis: Analytical methods for low-thrust orbital transfer

Diploma "Business Fundamentals"

University College Lamaro Pozzani [2016 – 2019]

Field(s) of study: Business, administration and law

Final grade: Excellent

LANGUAGE SKILLS

Mother tongue(s): **Italian**



Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

DIGITAL SKILLS

Microsoft Office / CAD SolidEdge / Proficient in Python Matlab and Simulink / JPL MONTE orbit determination code / ESA GODOT orbit determination software

PROJECTS

ATLAS

[11/2021 – Current]

Fundamental Techniques, Models and Algorithms for a Lunar Radio Navigation System (LRNS) within the ESA Moonlight Project

My contribution relates to the orbit determination software code and numerical simulation for the LRNS

Mentee – Mentors4U (top 25% of applicants)

[07/2021 – Current]

Generation4Universities Candidate (top 10% of applicants)

[25/04/2021 – 31/10/2021]

- 80h Bootcamp: Development of Soft, Horizontal and Professional skills.
- Project Work: Strategy, Data Analysis and Implementation of the Business model for a StartUp.
- Professional Seminars with CEO and Top Managers of the partner companies.
- Individual Mentorship.

HONOURS AND AWARDS

Honours Programme in Space and Astronautical Engineering

Sapienza University [2021]

Honours Programme in Aerospace Engineering

Sapienza University [2019]

Scholarship

Collegio Universitario dei Cavalieri del Lavoro Lamaro Pozzani [2016]

I hereby authorize the use of my personal data in accordance to the GDPR 679/16 – “European regulation on the protection of personal data”

Rome, 16/12/2022

Andrea Sesta