

PERSONAL INFORMATION

LO GRASSO GABRIELE



📍 Bologna, Italy
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Male | 05/12/1994 | Italian

SSD: ICAR/06 – Topografia e Cartografia

WORK EXPERIENCE

(March 2024 to October 2024)

Research fellowship

University of Bologna

Research activities included the laboratory and field calibration of the instruments composing the payload of a cubesat, including a spectrometer and a camera. These activities were part of the project *PR FESR 21-27 / SMAL-SAT – CUP J47G22000720003*.

(August 2023 – February 2024)

Works Director Assistant

Ale Consulting s.r.l.

- Supported construction management activities through site inspections, verification of construction works, technical accounting, and monitoring of work progress compliance.

(January 2023 – July 2023)

Construction technician

Frantoio Fondovalle s.r.l.

- Assisted in construction site management activities, including inspections, measurement support, technical accounting, and monitoring of construction works.

EDUCATION AND TRAINING

(November 2024 – Present)

PhD Student – 40° Cicle

University of Bologna (DICAM)

EQF Level 8

Research activities within the Space it Up! project. It is an Italian national research program funded by the Italian Space Agency (ASI) and the Italian Ministry of University and Research (MUR). My research activities involve Local Climate Zone mapping of Bologna, with pixel and object-based approaches, and DSM reconstruction of urban environments from very high-resolution satellite imagery.

(September 2019 – March 2023)

Master Degree in Civil Engineering

University of Bologna

EQF Level 7

- Thesis: "La termografia aerea per la modellazione energetica su scala urbana: Il caso di Corticella (Bologna)".

(September 2013 – July 2019)

Bachelor Degree in Civil Engineering

EQF Level 6

University of Bologna

- Thesis: "Caratteristiche funzionali e meccanismi di rottura degli argini fluviali: lezioni apprese dai crolli causati dall'uragano Katrina".

LANGUAGE SKILLS**Mother tongue** Italian**English** Listening: B2; Reading: B2; Writing: B2; Speaking: B2**ADDITIONAL INFORMATION**

Publications Lo Grasso, G.; Ventura, M.; Mandanici, E.; Bitelli, G. Improving Local Climate Zone Mapping at Fine Spatial Scales Using Urban Morphology, Spectral Information, and Machine Learning. *Remote Sens.* 2026, 18, 2690. <https://doi.org/10.3390/rs18162690>

Mandanici, E., Lo Grasso, G., Tini, M.A. *et al.* Estimation of apparent thermal inertia of roofing materials from aerial thermal imagery. *Sci Rep* 14, 15926 (2024). <https://doi.org/10.1038/s41598-024-64371-3>

Conferences Lo Grasso, G.; Mandanici, E.; Girelli, V.A. *Evaluating SfM Techniques for DEM Production from VHR Satellite Imagery in Urban Contexts*. **Poster** at the XXV ISPRS Congress, Toronto, Canada (2026).

Lo Grasso, G.; Ventura, M.; Mandanici, E.; Bitelli, G. *Local Climate Zone Mapping of Bologna: The Key Role of Training and Validation Sites*. **Poster** at the XXV ISPRS Congress, Toronto, Canada (2026).

Lo Grasso, G.; Giovannetti, S.A.E.; Mandanici, E.; Bitelli, G. *Risultati preliminari sulla classificazione con approccio ad oggetti della città di Bologna per la determinazione delle Local Climate Zones*. **Oral** presentation at the 40 anni di Telerilevamento in Italia: dalle prime immagini satellitari alle nuove frontiere della GeoAI (Dati, Prodotti, Servizi EO), Bologna, Italy (2026).

Lo Grasso, G.; Ventura, M.; Mandanici, E.; Bitelli, G. *Preliminary Results for Local Climate Zones Mapping of Bologna*. **Oral** presentation at the XII AIT International Conference, Milan, Italy (2025).

Mandanici, E.; Lo Grasso, G.; Tini M.A.; Zanutta, A. *Estimation of apparent thermal inertia of roofing materials from aerial thermal imagery*. **Oral** presentation at the ASITA National Conference, Padova, Italy (2024).

Summer school *International Remote Sensing Summer School - III edition*, San Vero Milis, Sardinia – Italy 16 - 20 September, 2024.