

# Giacomo Grosso

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Phone number: +39 3477198708

E-mail: giacomogrosso95@gmail.com

Address: Viale Giulio Cesare 95, Roma 00192

Birth date: 05/08/1995 Rome, Italy

European driving car license (B)

A1 A3 drone license

Native Tongue: Italian

English (Reading: Fluent, Writing: Fluent, Speaking: Fluent)

## **SUMMARY**

I am a highly motivated and experienced ecologist with a strong background in ecological research and GIS application to landscape ecology. I graduated with a MSc in Biodiversity and Ecosystem Management and a Master in GIS Science and UAV systems.

I am proficient in utilizing software tools such as QGIS, ArcGIS, R, ENVI, and Metashape. I have successfully completed various projects in the field of pollinators and bird ecology, precision agriculture, coastal and mountain ecosystems. My expertise also extends to collecting and analyzing ecological data at local and landscape level. Recently, I completed a second-level Master's program in GIS science and UAV for Integrated Land and Natural Resource Management.

I strongly believe in sharing knowledge especially with new generations and that's why I work part time as an Environmental Guide since 2018.

I am enthusiastic about expanding my knowledge and expertise, and I am eager to start building my ecologist career abroad. For these reasons I am studying Biodiversity Net Gain metrics and look forward to applying for CIEEM membership and protected species surveys licenses.

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## **PRACTICAL SKILLS**

- Proficient in GIS software such as QGIS, ArcGIS, and ArcGIS Online.
- Photointerpretation, georeferencing, land use mapping and classification, raster analysis, satellite image analysis, and vegetation indices, automatic and semi-automatic classification.
- Phase 1 habitat survey.
- Animal sampling techniques (active and passive): acoustic and sight birds identification, pan traps, pitfall traps, net, aquatic net, transect walk.
- Plant sampling techniques: transect walk, belt transect, quadrat method.
- Planning and organization skills for field data collection activities.

- Proficient in Excel and R for graphical, statistical and modeling analysis: t-test, Wilcoxon test, Mann Whitney test, one way ANOVA, factorial ANOVA, post hoc, correlation, univariate linear regression, bivariate and multivariate regression, generalized linear models (glm), mixed effects models, random forest, bases of species distribution models.
- Data manipulation and loop programming in R.
- Scientific writing.
- Basic knowledge of Metashape for photogrammetry activities, including image uploading, GCP identification, scale bar setup, and 3D model creation.

## **ORGANIZATIONAL/RELATIONAL SKILLS**

- Excellent organizational skills developed through university experience, environmental education activities, and remote work.
- Ability to manage and organize groups effectively.
- Strong problem-solving skills.
- Independent.
- Good time management, scheduling, and work prioritization.
- Self-Motivated.
- Willingness to gain new experiences and work in multidisciplinary teams.
- Strong determination and entrepreneurial spirit.
- Collaboration experience in research projects.

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## **WORK EXPERIENCE**

- **GIS Technician (Habitat and Land Cover Survey)**  
Terrasystem Company June 2023 – August 2023
  - Worked on a fixed-term contract as a GIS analyst for the ToMap project.
  - Responsibilities included mapping crop fields from satellite imagery using QGIS and conducting semi-automatic classification of crop fields using ENVI software.
- **GIS Technician (Curricular Internship)**  
OverIT Company February 2023 - May 2023
  - Conducted an internship focused on acquiring orthophotos from drones and creating 3D models using open-source software.
  - Developed different 3D models of historical monuments using Metashape.
  - Created a WebGIS using Esri suite (ArcGIS Pro and Online, ArcGIS Field Maps, WebApp Builder and Instant App).
- **Ecologist Research Fellow**  
University of Roma Tre February 2022 - February 2023
  - Principal investigator in research activities at Prof. Acosta's Coastal Ecosystems Ecology Laboratory, contributing to a project on remote sensing monitoring of *Carpobrotus* sp. .

- Conducted photo-interpretation activities in a coastal environment and remote recognition of alien plant species.
- Work submitted to Applied Geography in July 2023.
  
- **Master Research Thesis**  
 University of Viterbo May 2022 - December 2022
  - Carried on a research thesis as part of the Master's degree program in "Precision Agriculture" under the supervision of Prof. Danieli Pierpaolo.
  - Evaluated the influence of temperature and humidity on the season growth of *Apis mellifera* colonies using remotely acquired data in three different areas of Italy.
  
- **MSc Thesis Research**  
 University of Roma Tre May 2020 - June 2021
  - Designed and carried on a Master's thesis research on the ecology of mountain pollinators integrated with remote sensing techniques.
  - Collaborated with Prof. Di Giulio Andrea and Prof. Malavasi Marco at the University of Roma Tre.
  
- **Lecturer**  
 Climax Cooperative April 2021 – May 2021
  - Lecturer for the course "Basic Statistics and Ecological Data Analysis on R".
  
- **GIS Technician trainee**  
 University of Roma Tre September 2019- May2021
  - Land Use Map and phase 1 habitat survey: updated the land use map of the Latium coast through photointerpretation tasks.
  - Georeferencing and Land Cover Identification.
  
- **Assistant Ornithologist in a Nature Reserve**  
 Nature Reserve Torre Flavia March 2019 - July2019
  - Acoustic and sight sampling of birds species: *Cisticola juncidis*, *Acrocephalus scirpaceus* and *Acrocephalus arundinaceus*.
  - Territory mapping.
  - Data analysis.
  - Scientific writing.
  
- **Environmental Educator**  
 Climax Cooperative November 2018 – Present

- Environmental educator guiding young students, ages 6 to 18, to visit nature reserves and national parks trying to inspire them to care for nature and its beauty.
  - **Assistant Ecologist (Research and Monitoring Activities)**  
University of Roma Tre and Europe Life MIPP Project      March 2016 - May 2017
    - Conducted sampling of *Rana italica* and *Salamandrina perspicillata* in central Italy under the supervision of Prof. Leonardo Vignoli.
    - Conducted sampling of *Lissotriton italicus* at Tolfa under the supervision of Prof. Leonardo Vignoli.
    - Participated in applied research and monitoring activities in the environmental field for the European project "Life MIPP" coordinated by Corpo Forestale dello Stato.
  - **Secretary**  
Dr. Laura Levi Mortera, Ophthalmologist      January 2015 - March 2020
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## **EDUCATION AND TRAINING**

- **Second-Level Master's Degree in "GIS Science and UAV Systems"**  
University of Padua (EQF 8)      November 2022 - September 2023
  - Successfully completed a second-level Master's program in "GIS Science and UAV for Integrated Land and Natural Resource Management."
- **First-Level Master's Degree in "Precision Farming"**  
University of Viterbo (EQF 7)      February 2022 - January 2023
  - Successfully completed the first level Master's Degree in "Precision Agriculture."
- **Course Completion "Taxonomy of Hymenoptera, Apoidea Family"**  
C.R.E.A. Bologna      November 2021
  - Successfully completed the course "Taxonomy of Hymenoptera, Apoidea Family."
- **MSc in "Biodiversity and Ecosystem Management" (first class with honours)**  
University of Roma Tre (EQF 7)      September 2018 - June 2021
  - Successfully completed the Master's Degree in "Biodiversity and Ecosystem Management" with a research thesis titled "Study of pollinator community abundance, using remote sensing techniques, along an altitudinal gradient of the Laga Mountains" under the supervision of Prof. Andrea Di Giulio and Prof. Marco Malavasi. Graduated with a grade of 110/110 with honours.

- **Environmental Educator Course**  
Climax Cooperative November 2018
  
  - **Bachelor's in Biology (first class)**  
University of Roma Tre (EQF 6) September 2014 - February 2018
    - Bachelor's degree in Biological Sciences with a compulsory thesis on "The Use of *Apis mellifera* in Biomonitoring" under the guidance of Prof. Leonardo Vignoli and Prof. Marco Alberto Bologna.
  
  - **Diploma di Liceo Scientifico**  
Liceo Scientifico Statale Talete September 2009 - June 2014
  
  - **Cambridge English Examination**  
Cambridge School in Rome February 2014
    - Cambridge English Level 1 Certificate in ESOL International: FIRST (FCE) B2.
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## **ACHIEVEMENTS/PUBLICATIONS**

- Flavio Marzialetti, Giacomo Grosso, Alicia Teresa Rosario Acosta, Marco Malavasi, Luigi Cao Pinna, Giuseppe Brundu, Maria Laura Carranza. Dunes under attack: temporal trends of iceplant invasion (*Carpobrotus* sp. pl., Aizoaceae) in different landscape contexts. An insight into Mediterranean coasts. Applied Geography. (Submitted in July 2023)
  
  - Corrado Battisti, Giacomo Grosso, Susanna Ioni, Francesco Zullo and Fulvio Cerfolli, 2020. Response of specialized birds to reed-bed aging in a Mediterranean wetland: Significant changes in bird biomass after two decades. *Israel Journal of Ecology and Evolution* 67(1-2):1-6. DOI: <https://doi.org/10.1163/22244662-bja10007>
  
  - Giacomo Grosso & Corrado Battisti, 2018. Presenza di *Columba livia* forma domestica lungo mura di interesse storico: disponibilità, uso e selezione di siti e implicazioni gestionali. *Alula* 25(1-2): 61-66.
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## **HOBBIES AND INTEREST**

- Passion for nature photography.
- Proficient in playing the guitar and solfeggio.
- Certified scuba diver (first-degree AR certification at FIPSAS).
- Certified in swimming (sixth certification).