



Luca Di Fiore

GIS analyst

Professional forester with years of academic experience in ecology, geomatics and data analysis. I have acquired cross-functional skills between applied aspects of computer science related to the handling of big amounts of data and technical-practical skills related to forestry. Through my research activity, I have developed a dynamic personality inclined to problem solving, teamwork and communicating with the public.

Skills

- Data analysis
- GIS software
- Programming (R)
- Python
- PostGIS
- Machine learning
- Remote sensing
- CAD software
- Office package
- Forest surveys

Languages

English C1 level

Experience

- **Junior researcher** Sep 2024 -
CMCC Foundation
Environmental data analyst within the ICOS infrastructure.
- **Research grant** Oct 2021 - Sep 2023
University of Tuscia
 - Analysis, quality assessment and representation of remote sensing data by integrating GIS software (QGIS), programming languages (R) and cloud computing tools (Google Earth Engine).
 - Management of spatial databases with PostgreSQL and PostGIS.
 - Forest surveys and data analysis with production of cartography and reports within international working groups.
 - Scientific research focused on the ability of remote sensing to monitor the impact of climate change on forest ecosystems.

Education

- **Doctor of Philosophy** Nov 2017 - Jul 2021
University of Tuscia
"Ecology and sustainable management of environmental resources".
 - Management, analysis and representation of spatial data using GIS software (QGIS) and programming languages (R).
 - Remote sensing data processing to analyze vegetation indices time series and perform land cover classifications.
 - Forest surveys using innovative protocols in the context of UNESCO and National Geographic projects.
 - Participation in international scientific conferences and training abroad on advanced management of spatial data.
- **Internship** Nov 2016 - Oct 2017
University of Tuscia - German Research Centre for Geosciences
Comparison of multispectral satellite data and woody growth data. Acquisition of skills in programming, geomatics, remote sensing and refinement of the forest survey methods.

Hobbies

- Hiking and winter sports (Ski teacher)
- Playing chess
- Collecting antiques

Master degree (forestry)

Sep 2014 - Oct 2016

University of Tuscia

"Conservation and restoration of the forest environment and soil protection" (LM-25). Forest planning focusing on biodiversity preservation, with in-depth study of forest restoration, nature engineering and geomatics.

- Internship: analysis of spatial data relating to research activities, using GIS software (ArcGIS, QGIS, ENVI).
- Thesis: comparison of satellite data and woody growth data of beech forests on Monte Terminillo (RI). Graduation mark: 110/110 with honors.

Bachelor degree (forestry)

Oct 2011 - Sep 2014

University of Tuscia

"Science and Technology for Forest and Nature Conservation" (L-25). Application of basic knowledge in the biological and ecological fields to technical forestry subjects, delving into the theme of sustainability.

- Thesis: Comparison of woody growth data of beech forests in Monte Terminillo (RI). Graduation mark: 110/110 with honors.

High school diploma (Technical institute for qualified land surveyor)

Sep 2007 - Jul 2011

IIS "Ugo Ciancarelli" (RI)

Study of specific subjects such as construction, topography, building technology. Use of Microsoft Office package and technical drawing software (AutoCAD).

Diploma mark: 100/100.