

ANNA CANDOTTI

Languages

German – native
Italian – native
English – C1

Skills

- Programming languages: R (advanced), Python (intermediate), JavaScript (basic)
- (Geo)statistical analysis and data visualization
- Cartographic representations and manipulation of raster and vector data
- Collection, pre-processing and processing of optical (advanced), lidar (advanced) and radar (basic) satellite and UAV remotely sensed data
- Spatial data processing with GIS, Remote Sensing and Photogrammetry Software: QGIS, ArcGIS, Grass, Envi, Terrset, Snap, Cloud Compare, Agisoft Metashape
- GNSS and total station survey techniques
- Photogrammetric surveys and 3D terrain modelling
- Understanding of socio-environmental policies
- Use of Spectroradiometers
- Field data collection (ground and drone based)
- Analysis of eco-physiological data from IoT devices

Profile

Geographer and forest ecology PhD student with a background in the areas of remote sensing, cartography and geoinformatics and a particular interest in forest disturbance ecology and monitoring by means of close-range and remotely sensed data.

Experience

-Forest Ecology PhD Student, 2022 - , Free University of Bolzano (IT)
Fellowship for the Research Project in *Climate Change and Montane Forests: implications for management and biodiversity conservation*

-Research abroad

-Visiting period, February 2024- March 2024 at the Max Planck Institute for Biogeochemistry, Dept. of Biogeochemical Integration / Climate Ecosystem Disturbance Interactions Group (Jena (DE))

-Visiting period, January 2024 at the University of Graz, Institute of Geography and Regional Science/ Geospatial Technologies Group (Graz (AT))

-Teaching assistant, March-June 2024, October-December 2023, March-June 2023, Free University of Bolzano (IT)
Course in *Forest Inventories*
Course in *Management of Mountain Forests*

Education

-Master in Geography and Territorial Processes, September 2019- May 2022, University of Bologna (IT)

110/110 cum laude

Presentations at international conferences

-Disentangling Norway Spruce Responses to Bark Beetle Infestation and Drought Stress by Continuous Eco-Physiological Monitoring and Field Spectroscopy. **Anna Candotti** et al. Oral presentation at the XXVI World Congress of the International Union of Forest Research Organizations(IUFRO), 23-29 June 2024, Stockholm (SWE)

Publications

Candotti, A.; De Giglio, M.; Dubbini, M.; Tomelleri, E. A Sentinel-2 Based Multi-Temporal Monitoring Framework for Wind and Bark Beetle Detection and Damage Mapping. *Remote Sens.* **2022**, *14*, 6105. <https://doi.org/10.3390/rs14236105>

