



PERSONAL INFORMATION

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Nationality	Italian

WORK EXPERIENCE

- Dates (from - to) January 2022 – today
- Name and address of the employer Consiglio per la ricerca in agricoltura e l'analisi dell'economia agraria, Centro Foreste e Legno
- Type of business or sector
- Occupation or position held **Senior Technologist (permanent staff)**
- Dates (from - to) September 2020 – December 2021
- Name and address of the employer Consiglio per la ricerca in agricoltura e l'analisi dell'economia agraria, Centro Foreste e Legno
- Type of business or sector
- Occupation or position held **Technologist (permanent staff)**
- Dates (from - to) June 2018 – August 2020
- Name and address of the employer Consiglio per la ricerca in agricoltura e l'analisi dell'economia agraria, Centro Foreste e Legno
- Type of business or sector
- Occupation or position held **Temporary Researcher**
- Main activities and responsibilities AgriDigit project; LIFE FutureForCoppiceS project; the Italian National Rural Network project.
- Dates (from - to) August 2016 – May 2018
- Name and address of the employer Consiglio per la ricerca in agricoltura e l'analisi dell'economia agraria, Centro Foreste e Legno and Centro Agricoltura e Ambiente (formerly CREA-RPS)
- Type of business or sector
- Occupation or position held **Temporary Research Fellow**
- Main activities and responsibilities LIFE SMART4ACTION project; LIFE FutureForCoppiceS project.
- Dates (from - to) 2015 – 2019
- Name and address of the employer The American University of Rome;
Università degli Studi della Tuscia (DAFNE)
- Type of business or sector
- Occupation or position held **Adjunct professor**
- Main activities and responsibilities Research methodology;
Mathematics and Physics.

EDUCATION AND TRAINING

- Dates (from - to) 2011-2014
- Name and type of organisation providing education and training Università degli Studi di Bologna
- Principal subjects/occupational skills covered Electromagnetic geophysical methods, such as GPR, NMR, TDR.
- Title of qualification awarded **PhD Geophysics**
- Dates (from - to) 2007-2010
- Name and type of organisation providing education and training Università degli Studi di Roma Tre
- Principal subjects/occupational skills covered Terrestrial and Environmental Physics, Geophysics, Electromagnetic geophysical methods.
- Title of qualification awarded **MSc Physics**
- Dates (from - to) 2002-2007
- Name and type of organisation providing education and training Università degli Studi di Roma Tre
- Principal subjects/occupational skills covered Applied Physics, Terrestrial and Environmental Physics
- Title of qualification awarded **BSc Physics**

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE
OTHER LANGUAGES

SCIENTIFIC SKILLS
AND COMPETENCES

ITALIAN
ENGLISH, SPANISH

- Research interests (5 Key words): environmental science, statistical analysis, vegetation phenology, climate change, remote sensing.
- Statistical analysis of data from proximal and remote sensing sensors, development and application of procedures using multivariate statistical methods and modeling for studying forest ecosystem dynamics, with particular focus on climate interactions, climate anomalies, and forest management.

- RELEVANT ROLES AND COMPETENCES
- National scientific qualification for the position corresponding to Associate Professor (Abilitazione Scientifica Nazionale - Fascia II) in the field of forestry (07/B2 Scienze e Tecnologie dei Sistemi Arborei e Forestali).
 - CREA expert for MoU with FAO - Thematic Area 'Forestry'.
 - Member of the Italian Academy of Forest Sciences.
 - Contribution to several national and international projects, e.g., AgriDigit, Ossigeno, Urban4Tree, LIFE FOLIAGE, PRECISIONPOP, LIFE FutureForCoppiceS, Eu4Nature; LIFE SMART4ACTION, ASI PRISMA HYPERECOS; MONIFUN; IFNI; SOFIA (task 3.3 responsible), Hades (project co-leader), Hazimut (project leader).
 - Working Groups WG1-2-3-4 Member: COST Action CA21138 - Joint effects of CLimate Extremes and Atmospheric depositioN on European FORESTs.
 - Working Groups WG1 e WG2 Member: COST Action CA18207 - Biodiversity Of Temperate forest Taxa Orienting Management Sustainability by Unifying Perspectives.
 - MC Substitute [CA17109 IT] to COST Action CA17109 - Understanding and modeling compound climate and weather events.
 - Editorial board member for iForest and Annals of Silvicultural Research (ASR) journals and Topic MDPI 'Ground Penetrating Radar (GPR) Techniques and Applications'.
 - 2014 Ludger Mintrop Award from the European Association of Geoscientist & Engineers for the best paper published in Near Surface Geophysics: DOI:10.3997/1873-0604.2012051. https://eage.org/about_eage/award-winners/

PUBLICATION INDEXES (SCOPUS)

NUMBER OF PUBLICATIONS: 88
 TOTAL NUMBER OF CITATIONS: 3,937
 H-INDEX: 22
 Link to SCOPUS/ORCID:
<https://www.scopus.com/authid/detail.uri?authorId=28067754600>
<https://orcid.org/0000-0001-5249-1196>

RELEVANT PUBLICATIONS
Selected publications

1. Cesaretti, L., Ferrara, C., Ienco, D., Corona, P., & Bajocco, S. (2026). Biogeography of stress: Graded and threshold phenological responses in European beech-dominated forests under disruptive heatwaves. *Global Change Biology*, 32(7), e70986. <https://doi.org/10.1111/gcb.70986>
2. Ferrara, C.*, Bregaglio, S., Chianucci, F., Ricotta, C., & Bajocco, S. (2026). Phenological variability reveals environmental gradients in European beech forests. *International Journal of Biometeorology*, 70(4), 109. <https://doi.org/10.1007/s00484-026-03175-8>
3. Cesaretti, L., Bajocco, S., Corona, P., & Ferrara, C. (2025). Exploring the discrepancies between ground- and satellite-based autumn phenology: A comparative analysis in European beech forests. *International Journal of Remote Sensing*, 46(22), 8440–8459. <https://doi.org/10.1080/01431161.2025.2570550>
4. Chianucci, F., Napoleone, F., Ricotta, C., Ferrara, C., Fusaro, L., Balducci, L., Trentanovi, G., et al. (2024). Silvicultural regime shapes understory functional structure in European forests. *Journal of Applied Ecology*, 61(10), 2350–2364. <https://doi.org/10.1111/1365-2664.14740>
5. Bajocco, S., Ferrara, C.*, Savian, F., Ginaldi, F., Puletti, N., Crecco, L., Bregaglio, S., & Chianucci, F. (2024). LAir: An R package to estimate LAI from Normalized Difference Vegetation Index. *SoftwareX*, 27, 101776. <https://doi.org/10.1016/j.softx.2024.101776>
6. Ferrara, C., Chianucci, F., & Bajocco, S. (2023). On the temporal mismatch between in-situ and satellite-derived spring phenology of European beech forests. *International Journal of Remote Sensing*, 44(5), 1684–1701. <https://doi.org/10.1080/01431161.2023.2189033>
7. Ferrara, C., Puletti, N., Guasti, M., & Scotti, R. (2023). Mapping understory vegetation density in Mediterranean forests: Insights from airborne and terrestrial laser scanning integration. *Sensors*, 23(1), 511. <https://doi.org/10.3390/s23010511>
8. Puletti, N., Grotti, M., Masini, A., Bracci, A., & Ferrara, C. (2022). Enhancing wall-to-wall forest structure mapping through detailed co-registration of airborne and terrestrial laser scanning data in Mediterranean forests. *Ecological Informatics*, 67, 101497. <https://doi.org/10.1016/j.ecoinf.2021.101497>
9. Kattge, J., Bönsch, G., Díaz, S., Lavorel, S., Prentice, I. C., Leadley, P., et al. (2020). TRY plant trait database – enhanced coverage and open access. *Global Change Biology*, 26(1), 119–188. <https://doi.org/10.1111/gcb.14904>
10. Bajocco, S., Ferrara, C.*, Alivernini, A., Bascietto, M., & Ricotta, C. (2019). Remotely-sensed phenology of Italian forests: Going beyond the species. *International Journal of Applied Earth Observation and Geoinformation*, 74, 314–321. <https://doi.org/10.1016/j.jag.2018.10.003>