

Curriculum Vitae ANNA BARBATI

Personal information



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Sex Female | Nationality Italian

Academic profile

Dr. Anna Barbati is Associate Professor at the Department for Innovation in Biological, Agro-Food and Forest Systems of the University of Tuscia (Viterbo, Italy <http://www.unitus.it/en/dipartimento/dibaf>), where she teaches “Forest monitoring & Forest Inventories” and “Remote sensing for forest resource management”.

Her recent research is driven by the underlying goal of testing applications of (satellite and drone) remote sensing and forest sampling strategies for forest resources monitoring issues.

She has been working as consultant for the UNECE/FAO Timber Section and European Environment Agency in 2009-10, and contributed to the development of the European Forest Types, a reference forest classification framework for reporting on indicators of sustainable forest management in Europe.

She has developed her research experience in the field of forest and environmental planning, gaining a specific expertise in the following topics:

- climate change adaptation and mitigation in forestry and prevention of climate-change related risk (wildfires);
- geomatics applications to forest monitoring, with a focus on forest productivity and structural and compositional biodiversity variables;
- implementation of forest types classifications to monitor sustainable forest management at European level

Education

2007, Master (II level) in Landscape ecology and environmental design, University La Sapienza, Rome (Italy)

2001, Ph.D in Forest planning and Economics, University of Florence (Italy)

1997, Professional Master in Remote sensing and natural resources evaluation, Istituto Agronomico per l'Oltremare, Italian Ministry of Foreign Affairs Florence (Italy)

1996, Laurea in Forest Science, University of Florence (Italy)

Employment

November 2016-present, Associate Professor at the Department for Innovation in Biological, Agro-Food and Forest Systems of the University of Tuscia (Viterbo, Italy)

December 2010-October 2016, Assistant Professor at the Department for Innovation in Biological, Agro-Food and Forest Systems of the University of Tuscia (Viterbo, Italy)

2010-2009, UNECE/FAO Timber Section: consultancy on pilot reporting of Sustainable Forest Management Indicators by European Forest Types, in the framework of State of European Forests 2011 reporting activities.

2004-Nov 2010, Post-Doc researcher at the Department of Forest Environment and Resources of the University of Tuscia (Italy)

2002-2003, Post-Doc researcher at the Department of Forest Environmental Sciences and Technologies of the University of Florence, University of Florence (Italy)

Projects

In the past five years she has been PI of the following European research projects:

2019- 2021. Project Coordinator of the EU-funded H2020 project PREVAIL (PREVention Action Increases Large fire response preparedness) (<https://www.prevailforestfires.eu/>)

2017-2020. Principal Investigator of the Transnational project REFORM (Increasing resilience of forest mixtures) (<http://www.reform-mixing.eu/>)

2015-2019 LIFE14 ENV/IT/000414 "FRESH LIFE-Demonstrating Remote Sensing integration in sustainable forest management": Role: Principal investigator;

Memberships

- 2019- present Deputy Coordinator of IUFRO (International Union of Forest Research Organizations) Division 8 Forest Environment (<https://www.iufro.org/science/divisions/division-8/80000/>).
- 2019-present she was included in the 100 Esperte, an online databank including more than 130 female STEM experts in Italy (<https://100esperte.it/search?id=387>).
- 2010-present: corresponding member of the Italian Academy of Forest Sciences (2010)

Teaching and Advisor

Teaching

2020-2023 'Remote sensing in forest resource management (6 ECTS)' (2nd Level Degree Course), University of Tuscia, (Viterbo, Italy)

2013-2019 'Research Support for Sustainable Forest Management (6 ECTS)' (2nd Level Degree Course), University of Tuscia, (Viterbo, Italy)

2021-2023 'Monitoring and inventory of forest resources (6 ECTS)' (1st Level Degree Course), University of Tuscia, (Viterbo, Italy)

2017-2018 'Forest mensuration and geomatics (6 ECTS)' (1st Level Degree Course), University of Tuscia, (Viterbo, Italy)

2010-2017 'Fundamentals of geomatics and forest inventory (6 ECTS)' (1st Level Degree Course), University of Tuscia, (Viterbo, Italy)

2000-2001 'Forest biometrics (6 ECTS)' (2nd Level Degree Course), University of Sassari, Italy

PhD Thesis supervisor

2019-2022 Thesis project "Potential of Very High Resolution imagery for mapping rare tree plants and mixed forest stands" PhD course in Science, Technology and Biotechnology for Sustainability University of Tuscia

Language

Mother tongue Italian

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English (CEFR)	B2	B2	B2	B2	B2

Publications

Peer reviewed papers (Scopus): 66

H-INDEX (Scopus): 28

Scopus Author ID: 16686196200

10 most relevant publications (last 10 yrs)

- Fire-smart solutions for sustainable wildfire risk prevention: Bottom-up initiatives meet top-down policies under EU green deal, Ascoli D., Plana E., Oggioni S.D., Tomao A., Colonico M., Corona P., Giannino F., Moreno M., Xanthopoulos G., Kaoukis K., Athanasiou M., Colaço M.C., Rego F., Sequeira A.C., Acácio V., Serra M., Barbati A. *International Journal of Disaster Risk Reduction* 2023, 92.
- Rural development funding and wildfire prevention: Evidences of spatial mismatches with fire activity, Colonico, M., Tomao, A., Ascoli, D., Corona, P., Giannino, F., Moris, J.V., Romano, R., Salvati, L., Barbati, A. *Land Use Policy*, 2022, 117
- Object oriented classification for mapping mixed and pure forest stands using very-high resolution imagery, Oreti, L., Giuliarelli, D., Tomao, A., Barbati, A., *Remote Sensing*, 2021, 13(13), 2508
- Very high-resolution true color leaf-off imagery for mapping *Taxus baccata* L. and *Ilex aquifolium* L. understory population, Oreti, L., Barbati, A., Marini, F., Giuliarelli, D., *Biodiversity and Conservation*, 2020, 29(8), pp. 2605–2622
- UAV remote sensing for biodiversity monitoring: Are forest canopy gaps good covariates? Bagaram, M.B., Giuliarelli, D., Chirici, G., Giannetti, F., Barbati, A. *Remote Sensing*, 2018, 10(9), 1397
- Conservation and enhancement of the green infrastructure as a nature-based solution for Rome's sustainable development. Ferrari, B., Quatrini, V., Barbati, A., Corona, P., Masini, E., Russo, D., *Urban Ecosystems*, 2019, 22(5), pp. 865–878
- European Forest Types: toward an automated classification. Giannetti, F., Barbati, A., Mancini, L.D., Travaglini, D., Bastrup-Birk, A., Canullo, R., Nocentini, S., Chirici, G. *Annals of Forest Science*, 2018, 75(1), 6
- Taking the pulse of forest plantations success in peri-urban environments through continuous inventory. Ferrari, B., Corona, P., Mancini, L.D., Salvati, R., Barbati, A. *New Forests*, 2017, 48(4), pp. 527–545
- Concept to practices of geospatial information tools to assist forest management & planning under precision forestry framework: A review. Fardusi, M.J., Chianucci, F., Barbati, A. *Annals of Silvicultural Research*, 2017, 41(1), pp. 3–14
- European Forest Types and Forest Europe SFM indicators: Tools for monitoring progress on forest biodiversity conservation. Barbati, A., Marchetti, M., Chirici, G., Corona, P. *Forest Ecology and Management*, 2014, 321, pp. 145–157
- Natural forest expansion into suburban countryside: Gained ground for a green infrastructure?. Barbati A, Corona P., Salvati L., Gasparella L., 2013. *Urban Forestry & Urban Greening*, vol. 12, pp. 36-43

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV.

Dr. Anna Barbati

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