Personal information

First name / Last name: **Francesco Boscutti**

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Current position

29/11/2024–present

Associate Professor in Environmental and Applied Botany (BIOS-01/C)

Global change and plant communities: relationships between plants and their environment, from populations to communities.

UNIVERSITY OF UDINE. DEPARTMENT OF AGRICULTURAL, FOOD, ENVIRONMENTAL AND ANIMAL SCIENCES. Via delle Scienze 206, 33100 Udine, Italy.

National Scientific Qualification

01/12/2023 to 01/12/2034

Italian National Scientific Qualification (ASN) for appointment as **Full Professor** under Article 16 of Law 240/2010, competition sector 05/A1 Botany. 2021–2023 ASN call, sixth assessment round. Valid from 1 December 2023 to 1 December 2034.

Professional memberships

2020 –present

Member of the Italian Botanical Society (Società Botanica Italiana, SBI).

Research activity

Research profile

Research in applied botany, plant ecology, applied ecology and vegetation science. Investigation of the ecological processes driving plant responses to global change through observational studies and experiments in terrestrial and coastal ecosystems. A functional, cross-scale approach links responses at population, community, ecosystem and landscape levels. Research has addressed vascular-plant responses to environmental gradients (including alpine and coastal gradients) and drought; the relationships between human-modified ecosystems and biological invasions; ecological restoration and agroecology; landscape effects on plant invasions; and the impacts of sustainable farming practices on agroecosystem vegetation and ecosystem services. Other areas include restoration monitoring, biodiversity assessment, vegetation mapping, GIS and remote sensing (multispectral imagery and LiDAR), phytosociology, floristic surveys and vascular-plant distribution mapping for regional biogeographic syntheses. Interdisciplinary projects investigate plant–environment–animal interactions, involving arthropods and vertebrates, ecosystem services and biodiversity. Skills include biostatistical analysis (R), biological database management and geospatial data management.

Main research areas

Plant ecology; applied ecology; biological invasions; quantitative ecology; vegetation science; climate-change impacts on alpine species and habitats; restoration ecology and biodiversity monitoring; agroecology; disturbance ecology; functional ecology; GIS and LiDAR vegetation mapping.

Bibliometric indicators

SCOPUS: 88 indexed documents; h-index: 26; citations: 1,891 (accessed November 2026)
https://www.scopus.com/authid/detail.uri?authorId=55537125400

Web of Science: 81 indexed documents; h-index: 24; citations: 1,684 (accessed November 2026)
https://www.webofscience.com/wos/author/record/1294488

Editorial and peer-review activity

Editor

2023–present
PLOS ONE
Academic Editor
Sections: Ecology - Plants, Plant biology, Ecology – Ecosystems
29 manuscripts handled (Web of Science, November 2021 – November 2026).

2020-2022
Plants
Guest Editor for the special issue "Plant–Soil Interactions in Wetlands and Flooded Environments"

2020-2023
Sustainability
Guest Editor for the special issue "Effects of Global Changes on Biodiversity and Ecosystem Services"

2019-2021
Journal: Frontiers in Forests and Global Change
Guest Editor for the special issue "Invasions and Impacts of Exotic Species in Forests"

Peer review

Between November 2021 and November 2026, completed 80 peer reviews certified by Web of Science, covering 51 manuscripts for 49 international scientific journals. The journals span ecology, environmental science, botany and biodiversity conservation.

Scientific journals:
Nature Plants, Soil Biology and Biochemistry, Journal of Environmental Management, Ecological Indicators, Ecological Informatics, Geoderma, Journal of Hydrology, Catena, Journal of Ecology, Communications Biology, Journal of Applied Ecology, Biological Conservation, Environmental and Experimental Botany, Marine Pollution Bulletin, Plants, Ecological Applications, Journal of Plant Ecology, Biology, Remote Sensing, Basic and Applied Ecology, Journal of Forestry Research, Sustainability, Land Degradation & Development, Applied Vegetation Science, Biodiversity and Conservation, Global Ecology and Conservation, Land, Water, Journal of Vegetation Science, Ecological Solutions and Evidence, Forests, Oikos, PeerJ, Ecosphere, PLOS ONE, BMC Ecology and Evolution, Biological Invasions, Restoration Ecology, Ecology and Evolution, Science Progress, iForest – Biogeosciences and Forestry, Plant-Environment Interactions, Plant Biosystems, Biologia, Wetlands Ecology and Management, Journal of Freshwater Ecology, Hacquetia, Acta Scientiarum Polonorum Hortorum Cultus, Ecoscience.

Web of Science profile:
https://www.webofscience.com/wos/author/record/1294488

Funded research projects

Served as Principal Investigator, scientific lead of research units, research activities and funded agreements in 11 national and European projects, with total funding of €1,656,195.25 (approximately €1.66 million).
Funding categories:

- €557,558.00 across 3 projects supported by competitive national and European grants (PRIN and Interreg);
- €570,077.25 from the National Biodiversity Future Center (PNRR/NRRP), with scientific responsibility for research activities;
- €528,560.00 across 7 funded research agreements and contracts with public bodies and other partners.

06/2026–12/2028
Scientific lead

	Research agreement between ERSA (Regional Agency for Rural Development of Friuli Venezia Giulia) and the University of Udine for "Scientific aspects of agronomic systems: soil fertility and biology, weed spread, and information and knowledge data layers supporting AKIS back-office services" (CUP D28H26000320009). Funding: 305.800€
10/2026–12/2026	Scientific lead Cooperation agreement between Legambiente FVG APS (lead organisation) and the University of Udine, Department of Agricultural, Food, Environmental and Animal Sciences (project partner), for scientific and operational coordination of "Quadri di natura senza confini" ("Nature without borders"; CUP G23C25001960007). Funding: 7.800€
04/2026-12/2028	Scientific lead Cooperation agreement between the Autonomous Region of Friuli Venezia Giulia and the University of Udine for floristic and vegetation monitoring of the dune-restoration project on Sant'Andrea Island, Municipality of Marano Lagunare (UD), 2026–2028 (CUP G33C26000020002). Funding: 75.000€
02/2025-02/2027	Scientific lead of the project partner unit Scientific lead for the partner unit of the Interreg VI-A Italy–Austria 2021–2027 project "BioBox: Crossborder Biodiversity Tool Box". Funding: €250,068.
02/2025-02/2027	Scientific lead of the project partner unit Scientific lead for the partner unit of the Interreg VI-A Italy–Austria 2021–2027 project "BACK TO PEOPLE AND FIT FOR FUTURE". Funding: €121,604.
06/2023-08/2025	Principal Investigator Principal Investigator of the PRIN 2022 project (code 2022MKAC7T), "RE-SHAPE UP – Rain Exclusion Sensitivity in High Altitude Plants and Ecosystems: Upscaling Perspectives"; ERC panel LS8_5. Funding: €185,886.
09/2022-08/2025	Scientific lead of research activities National Biodiversity Future Center (NBFC), Spoke 4, Activity 4.1: "Advanced systems for the analysis, monitoring and management of biodiversity, its structural organization, functions, and ecosystem services, also in relation to human and natural threats". Research funded through the Italian NRRP/PNRR, MUR M4C2 Investment 1.4, National Centres call (Directorate Decrees nos. 3138 and 3175, December 2021). Funding: €570,077.25.
06/2022-12/2023	Scientific lead Research agreement between ERSA and the University of Udine for "Relationships between water stress, plant ecophysiology and mycotoxin occurrence in maize under climate-change scenarios (ECO-MICORN-CLIMA)". Funding: €55,000.
07/2020-12/2022	Scientific lead

Research agreement between ERSA and the University of Udine on “Effectiveness of cover crops in supporting biodiversity and agronomic and ecosystem services in agricultural and rural landscapes” (CUP G52F20000010002).
Funding: €60,000.

07/2018-07/2020 — Scientific lead

Research agreement between ERSA and the University of Udine on “Effectiveness of conservation agriculture in mitigating climate change in agricultural landscapes” (CUP F66C18000040002).
Funding: €12,000.

07/2018-12/2020 — Scientific lead

Research cooperation agreement between the Municipality of San Daniele del Friuli and the University of Udine within “Tiliment, water, claps & bike – protection and enhancement of the river landscape from Osoppo to Dignano” (CUP J13D18000000002).
Funding: €12,960.

Other research initiatives

2023–present — Coordinator

Coordinator of the grid-based floristic mapping project for Friuli Venezia Giulia (scientific director: Dr Fabrizio Martini). The project draws on a long-term database of more than 290,000 field observations to map vascular-plant distributions and support regional biogeographic syntheses.

Teaching experience

University teaching

Doctoral programmes

academic year 2025/2026 – Cycle 41
academic year 2024/2025 – Cycle 40
academic year 2023/2024 - Cycle 39
academic year 2022/2023 - Cycle 38 — Member of the doctoral faculty board of the inter-university PhD programme “Environment and Life” (Ambiente e Vita), administered by the University of Trieste in partnership with the University of Udine.

academic year 2026/2027 – Cycle 42
academic year 2025/2026 – Cycle 41
academic year 2024/2025 – Cycle 40
academic year 2023/2024 - Cycle 39 — Member of the doctoral faculty board of the PhD programme “Biodiversity”, administered by the University of Palermo.

Italian universities

academic years 2023/2024 to 2025/2026 — Lecturer on initial teacher training courses for lower- and upper-secondary education (class A-28, Mathematics and Science): “Teaching Life Sciences” (3 ECTS; 18 contact hours), University of Udine.

academic years 2023/2024 to 2025/2026 — Lecturer, “Plant Biodiversity and Global Change” (6 ECTS, BIO/01), MSc in Sustainable Sciences and Technologies for the Environment, University of Udine (48 hours).

academic years 2023/2024 to 2025/2026	Lecturer, “Plant Biodiversity” (6 ECTS), BSc in Environmental and Natural Sciences, University of Udine (52 hours).
academic year 2022/2023	Lecturer, “Plant Biology and Environmental Change” (8 ECTS, BIO/01), MSc in Environmental Analysis and Management, University of Udine (56 hours).
academic years 2023/2024 to 2026/2027	Lecturer, “Geography and Biodiversity of Landscapes and Agri-food Products I” (5 ECTS, BIO/03), BSc in Food Science and Culture, University of Udine (35 hours).
academic years 2016/2017 to 2018/2019	Lecturer, “Didactics of the Natural World 1+2” (8 ECTS, BIO/01; module within “Teaching Biological and Ecological Disciplines”, 9 ECTS), five-year single-cycle MSc in Primary Teacher Education, Italian-language section, Free University of Bozen–Bolzano (60 hours).
a academic years 2016/2017 to 2018/2019	Lecturer, “Didactics of the Natural World – Laboratory” (1 ECTS, BIO/01; module within “Teaching Biological and Ecological Disciplines”, 9 ECTS), five-year single-cycle MSc in Primary Teacher Education, Italian-language section, Free University of Bozen–Bolzano (20 hours).
academic years 2015/2016 to 2022/2023	Lecturer, “Plant Morphology and Taxonomy” (6 ECTS), BSc in Environmental and Natural Sciences, University of Udine (52 hours).
academic year 2013/2014	Lecturer, “Science Education Laboratory II”, Primary Teacher Education, University of Udine (25 hours).
International institutions	
academic year 2020/2021	Lecturer, “Managing Agroecosystems” (6 ECTS), master-level course in Viticulture and Oenology, University of Nova Gorica (20 hours).
academic year 2012/2013	Lecturer, “Plant Systematics”, BSc in Natural Resource Sciences, Zurich University of Applied Sciences (ZHAW) (16 hours).
academic year 2012/2013	Lecturer, “Species Knowledge” minor, BSc in Natural Resource Sciences, Zurich University of Applied Sciences (ZHAW) (4 hours).

Thesis and doctoral supervision

2021–present

Doctoral thesis supervision

Supervisor of 6 PhD theses in the following programmes:

- 2 doctoral researchers in the inter-university PhD in Environment and Life, University of Trieste and University of Udine:
  - Giacomo Trotta (37th cycle; currently postdoctoral researcher at the University of Oviedo).
  - Paolo Cingano (39th cycle; currently postdoctoral researcher at the University of Udine).
- 4 doctoral researchers in the National PhD in Biodiversity (DIN), University of Palermo:
  - Edoardo Asquini (39th cycle; currently postdoctoral researcher at the University of Udine).
  - Guido Marcoz (40th cycle).
  - Elisa Pauletto (42nd cycle).
  - Sara Pischedda (42nd cycle).

Co-supervisor of 2 PhD theses in Agricultural and Environmental Sciences at the University of Udine and 1 PhD thesis in Environment and Life (University of Trieste / University of Udine).

Supervision of undergraduate and master’s theses

Supervisor of 56 degree theses across the following institutions:

- 53 theses at the University of Udine: 39 bachelor’s and 14 master’s theses.
- 2 master’s theses at the Free University of Bozen–Bolzano (UNIBZ).
- 1 master’s thesis at Zurich University of Applied Sciences (ZHAW), Switzerland.

Co-supervision of degree theses

Co-supervisor of 36 degree theses across the following institutions:

- 32 at the University of Udine: 21 bachelor’s, 9 master’s and 2 Primary Teacher Education theses (one under the former system and one single-cycle master’s).
- 3 bachelor’s theses at Zurich University of Applied Sciences (ZHAW), Switzerland.
- 1 master’s thesis at the University of Padua (UniPD).

Workshops, field schools and other teaching activities	
2025/2026	Co-organiser of the international study trip “Sharing Cross-Border Experiences on Management and Nature-Based Solutions in Urban River Contexts under Global Change Scenarios”, organised by the University of Udine with the University of Girona (Spain), under the European ACROSS university alliance.
2023/2024	Co-organiser of the study trip “Sustainable Management of Forest Ecosystems in the Catalan Pyrenees”, University of Udine in collaboration with the University of Lleida (Spain).
2022/2023	Lecturer for the Lincei School Programme (Polo Lincei per la Scuola), within the 2023 Science Course “Biodiversity: Analysis, Conservation and Restoration”.
2022/2023	Coordinator of the study trip “Ecological Restoration of Laurisilva: Botanical and Forestry Aspects for Biodiversity Conservation in the Canary Islands”.
2026/2027 2022/2023 2021/2022	Coordinator of the Erasmus Blended Intensive Programme (BIP) “Monitoring Alpine River Dynamics from a Biodiversity and Landscape Perspective”, in collaboration with Eberswalde University for Sustainable Development (HNEE, Germany) and Kazimierz Wielki University (UKW, Bydgoszcz, Poland).
academic years 2022/2023 to 2025/2026	Lecturer at the Summer School “Designing and Testing New Development Models at the Human–Animal–Environment Interface: Agroecology, Social Inclusion, Territory and Community”.
From academic year 2007/2008 to academic year 2011/2012	Teaching assistant for Geobotany, Systematic Botany, Geomatics and Landscape Ecology, BSc in Environmental and Natural Sciences and specialist degree in Environmental and Natural Science and Technology, University of Udine. UNIVERSITY OF UDINE. FACULTY OF AGRICULTURE. Via delle Scienze 208, 33100 Udine, Italy.
academic year 2013/2014	Teaching assistant for Geobotany, Geomatics and Landscape Ecology, BSc and specialist degree programmes in Environmental and Natural Sciences, University of Udine. UNIVERSITY OF UDINE. DEPARTMENT OF AGRICULTURAL, FOOD, ENVIRONMENTAL AND ANIMAL SCIENCES. Via delle Scienze 206, 33100 Udine, Italy.
From 2022 to 2025	Lecturer in the Erasmus BIP “Monitoring Alpine River Dynamics from a Biodiversity and Landscape Perspective”, with Eberswalde University for Sustainable Development (Germany) and Kazimierz Wielki University (Poland).
From 2008 to 2017	Instructor, “International Alpine Workshop – Tagliamento” (2008–2017), organised by Jean-Bernard Bächtiger and Daniéle Lagnaz (ZHAW Wädenswil, Switzerland) and Maurizia Sigura (University of Udine); ten one-week editions. International field workshop for students of natural and environmental sciences across Europe. Field-based ecological analyses along the Tagliamento River, focused on vegetation, flora, fauna, biodiversity, alien species, habitats, conservation issues and Natura 2000 ecological connectivity. UNIVERSITY OF UDINE. FACULTY OF AGRICULTURE. Via delle Scienze 208, 33100 Udine, Italy. INSTITUTE OF NATURAL RESOURCES SCIENCES, ZHAW ZURICH UNIVERSITY OF APPLIED SCIENCES, Grüental, P.O. Box CH-8820 Wädenswil (CH -ZURICH)
03/2006	Lecturer, ENAIP course “Teaching Environmental Education” (6 hours). Module on regional flora and vegetation within the ENAIP Friuli Venezia Giulia course “Teaching Environmental Education” (European Social Fund programme FSE/200520499024). ENAIP FRIULI VENEZIA GIULIA - Centro Servizi Formativi di Gorizia. Via Brigata Pavia 25, 34170 Gorizia. Telefono 0481.585411 / Fax 0481.538838. E-mail: gorizia@enaip.fvg.it

Academic and institutional appointments

From 2026 –present	Member of the Monitoring Committee of the Friuli Venezia Giulia Regional ERDF Programme 2021–2027.

From 2024–present	Departmental Delegate for Research, Department of Agricultural, Food, Environmental and Animal Sciences, University of Udine.
From 2023 –present	Deputy Coordinator of the inter-university PhD programme "Environment and Life" (Ambiente e Vita), University of Trieste (administrative institution) and University of Udine (partner institution).
From 2023 - 2024	Deputy Coordinator, BSc programme in Environmental and Natural Sciences, University of Udine.
From 2023 - 2024	Erasmus and International Mobility Delegate, MSc programme in Sustainable Sciences and Technologies for the Environment, University of Udine.
From 2018 - 2024	Erasmus and International Mobility Delegate, BSc programme in Environmental and Natural Sciences, University of Udine.
From 2020 - 2024	Member of the Quality Assurance Committee, BSc programme in Environmental and Natural Sciences, University of Udine.
From 2020- 2024	Member of the Quality Assurance Committee, BSc programme in Food Science and Culture, University of Udine.
From 2021–present	Member of the Scientific and Technical Committee of the UNESCO MAB "Italian Julian Alps" Biosphere Reserve.

Education and training

Academic qualifications

03/03/2010	Appointed subject-matter expert for "Geomatics" (disciplinary sector AGR/10) and "Territorial Planning Laboratory" (AGR/10 and ICAR/21). Disciplines: "Geomatics" (AGR/10) and "Territorial Planning Laboratory" (AGR/10 and ICAR/21). UNIVERSITY OF UDINE. FACULTY OF AGRICULTURE. Via delle Scienze 208, 33100 Udine, Italy.
01/2007 – 12/2009	PhD in Economics, Ecology and Conservation of Agricultural and Landscape–Environmental Systems. PhD thesis: "Assessment of anthropogenic agricultural pressure in areas of high nature conservation value". Focus: vegetation science, agricultural impacts on ecosystems, and GIS applications. UNIVERSITY OF UDINE. FACULTY OF AGRICULTURE. Via delle Scienze 208, 33100 Udine, Italy.
09/2000 – 12/2004	Four-year pre-Bologna degree in Natural Sciences (Laurea, old system), awarded with honours (110/110 cum laude). Degree thesis in Botany: "The Urban Flora of Cividale" ("La flora urbana di Cividale"). UNIVERSITY OF TRIESTE. FACULTY OF MATHEMATICAL, PHYSICAL AND NATURAL SCIENCES. Piazzale Europa 1, 34127 Trieste, Italy.

Training and professional development

03/04/2012	Vocational training course FP1147150001: "SQL Database Development and Administration" (120 hours), authorised by the Autonomous Region of Friuli Venezia Giulia under Regional Law 76/1982 and co-financed by European funds. IAL FRIULI VENEZIA GIULIA - Centro di formazione. Via Bariglaria 144 - 33013 Gemona
11/2008	Trainee.

	Residential course on the assessment of environmental quality in agroecosystems, Onferno Nature Reserve (Rimini). Advanced training for graduates in vegetation biodiversity, agricultural landscape quality, environmental indicators, biodiversity monitoring, agro-environmental measures (CAP/RDP), ecological networks and Natura 2000. ITALIAN SOCIETY FOR VEGETATION SCIENCE and POLYTECHNIC UNIVERSITY OF MARCHE.
04/2005 – 04/2006	Internship at the Botany Section of the Friulian Museum of Natural History, Udine: botanical collection data entry and inventory, preparation and identification of specimens; research on biodiversity in Udine's historic waterways; educational activities for the exhibition on the spontaneous vascular flora of Udine. COMUNE DI UDINE - MUSEO FRIULANO DI STORIA NATURALE, Sede Legale: Via Lionello n. 1 - Sede Amministrativa: Via Marangoni nn. 39 e 41. I-33100 UDINE. Tel. 0432 584711

Professional experience

	Professional experience includes university research contracts and positions, collaboration in national and international research projects, and technical/scientific consultancy for public bodies and private clients. Entries are grouped below by type of activity.
Academic research positions	
	University research appointments, fellowships and contracts at Italian and foreign institutions. The current academic appointment is reported at the beginning of this CV.
11/2021 – 11/2024	Fixed-term Researcher in Environmental and Applied Botany (BIO/03), tenure-track type B under Italian Law 240/2010. Global change and plant communities: interactions between species-specific responses and community-level responses. UNIVERSITY OF UDINE. DEPARTMENT OF AGRICULTURAL, FOOD, ENVIRONMENTAL AND ANIMAL SCIENCES. Via delle Scienze 206, 33100 Udine, Italy.
12/2018 – 11/2021	Fixed-term Researcher in Environmental and Applied Botany (BIO/03), type A under Italian Law 240/2010. Global change and plant communities: interactions between species-specific responses and community-level responses. UNIVERSITY OF UDINE. DEPARTMENT OF AGRICULTURAL, FOOD, ENVIRONMENTAL AND ANIMAL SCIENCES. Via delle Scienze 206, 33100 Udine, Italy.
01/08/2017 – 30/07/2018	Postdoctoral Research Fellow, University of Udine, Department of Agricultural, Food, Environmental and Animal Sciences. Research fellowship: "Effects of Environmental Stress in Alpine Heaths and Shrublands". UNIVERSITY OF UDINE. DEPARTMENT OF AGRICULTURAL, FOOD, ENVIRONMENTAL AND ANIMAL SCIENCES. Via delle Scienze 206, 33100 Udine, Italy.
01/05/2015 – 30/06/2017	Postdoctoral Research Fellow at the University of Udine, Department of Humanities; research carried out partly at the Department of Agricultural and Environmental Sciences. Research fellowship: "GIS Applications and Species Distribution Models (SDMs) to Study the Landscape Distribution and Connectivity of Plant Communities in Agricultural Areas". UNIVERSITY OF UDINE. DEPARTMENT OF HUMANITIES. Via Petrarca 8, 33100 Udine, Italy.
01/03/2014 – 28/02/2015	Postdoctoral Research Fellow, University of Udine, Department of Agricultural and Environmental Sciences. Research fellowship: "Study and Ex Situ Conservation of Notable Flora of Friuli Venezia Giulia".

	UNIVERSITY OF UDINE. DEPARTMENT OF AGRICULTURAL AND ENVIRONMENTAL SCIENCES. Via delle Scienze 208, 33100 Udine, Italy.
07/2012 – 09/2013	Contract Researcher, Zurich University of Applied Sciences (ZHAW), Switzerland. Research in the vegetation analysis group: long-term vegetation monitoring in wet grasslands; high-altitude restoration; and residual naturalness in agroecosystems. INSTITUTE OF NATURAL RESOURCES SCIENCES, ZHAW ZURICH UNIVERSITY OF APPLIED SCIENCES, Grüental, P.O. Box CH-8820 Wädenswil (CH -ZURICH)
11/2011 - 06/2012	Research collaboration contract (Law 449/1997, Art. 51), University of Udine, Faculty of Agriculture, Department of Agricultural and Environmental Sciences. GIS technologies to study the effects of environmentally sustainable farming methods on residual naturalness in agroecosystems, within the MULTIFARM project (Regional Law 26/2005, Art. 17). UNIVERSITY OF UDINE. FACULTY OF AGRICULTURE. Via delle Scienze 208, 33100 Udine, Italy.
03/2010 - 10/2011	Research collaboration contract (Law 449/1997, Art. 51), University of Udine, Faculty of Agriculture, Department of Agricultural and Environmental Sciences. GIS technologies to study the effects of environmentally sustainable farming methods on residual naturalness in agroecosystems, within the MULTIFARM project (Regional Law 26/2005, Art. 17). UNIVERSITY OF UDINE. FACULTY OF AGRICULTURE. Via delle Scienze 208, 33100 Udine, Italy.

Research collaborations and projects

Collaborations in European, national and regional projects and agreements with universities, research institutes and public authorities. Main areas: biodiversity, vegetation ecology, ecosystem conservation and restoration, landscape ecology, environmental monitoring and remote sensing.

03/2026 – 03/2028	Research and scientific coordination, University of Udine, Department of Agricultural, Food, Environmental and Animal Sciences. Participation in the Interreg VI-A Italy–Austria project “GRACE – Green Roofs for Alpine Ecological Connectivity”, coordinated by Eurac Research. Joint coordination with Maurizia Sigura of the University of Udine research group, focusing on biodiversity monitoring, assessment of the ecological performance of green roofs, and their roles in climate-change mitigation and urban ecological connectivity. UNIVERSITY OF UDINE. DEPARTMENT OF AGRICULTURAL, FOOD, ENVIRONMENTAL AND ANIMAL SCIENCES. Via delle Scienze 206, 33100 Udine, Italy.
02/2026 – 12/2027	Research and technical/scientific support, University of Udine, Department of Agricultural, Food, Environmental and Animal Sciences. Research collaboration under the agreement between the Autonomous Region of Friuli Venezia Giulia (Central Directorate for Agri-food, Forestry and Fisheries Resources) and the University of Udine for the preparation of the “Regional Forestry Plan (PFR) 2027–2036”, a strategic instrument for sustainable forest management, biodiversity conservation and ecosystem services. UNIVERSITY OF UDINE. DEPARTMENT OF AGRICULTURAL, FOOD, ENVIRONMENTAL AND ANIMAL SCIENCES. Via delle Scienze 206, 33100 Udine, Italy.
09/2025-06/2026	Research and scientific consultancy, University of Udine, Department of Agricultural, Food, Environmental and Animal Sciences.

	Research activities under the framework agreement between the Autonomous Region of Friuli Venezia Giulia and the University of Udine on scientific consultancy, technical support and advanced training in territorial governance, particularly “The Manufacturing Landscape – Green and Blue Infrastructure”, addressing ecological connectivity, green/blue infrastructure planning and nature-based solutions for industrial and productive areas (CUP G23C24001550007). UNIVERSITY OF UDINE. DEPARTMENT OF AGRICULTURAL, FOOD, ENVIRONMENTAL AND ANIMAL SCIENCES. Via delle Scienze 206, 33100 Udine, Italy.
04/2024 – 09/2026	Research activity at the University of Udine, Department of Agricultural, Food, Environmental and Animal Sciences. Participation in the European Interreg VI-A Italy–Croatia “BRIGANTINE” project, developing innovative monitoring and conservation technologies for Adriatic marine and coastal ecosystems. Coordination of monitoring of marine vegetation and submerged seagrass meadows using remote sensing and autonomous environmental data acquisition. UNIVERSITY OF UDINE. DEPARTMENT OF AGRICULTURAL, FOOD, ENVIRONMENTAL AND ANIMAL SCIENCES. Via delle Scienze 206, 33100 Udine, Italy.
10/2021 – 12/2026	Research activity at the University of Udine, Department of Agricultural, Food, Environmental and Animal Sciences. Participation in the LIFE SEEDFORCE project, “Using SEED banks to restore and reinFORCE the endangered native plants of Italy” (LIFE20 NAT/IT/001468), coordinated by MUSE (Trento Science Museum). Conservation and recovery of threatened plant species through seed banks, genetic diversity analyses, propagation, reintroduction and population reinforcement at Natura 2000 sites. UNIVERSITY OF UDINE. DEPARTMENT OF AGRICULTURAL, FOOD, ENVIRONMENTAL AND ANIMAL SCIENCES. Via delle Scienze 206, 33100 Udine, Italy.
01/2021 – 12/2022	Research activity at the University of Udine, Department of Agricultural, Food, Environmental and Animal Sciences. Participation in Horizon 2020 project GA 824466, promoting collaboration between schools and communities. Through scientific knowledge, participants developed sustainable urban regeneration activities to reconnect people and create healthier urban environments. UNIVERSITY OF UDINE. DEPARTMENT OF AGRICULTURAL, FOOD, ENVIRONMENTAL AND ANIMAL SCIENCES. Via delle Scienze 206, 33100 Udine, Italy.
11/2017 –12/2019	Research activity at the University of Udine, Department of Agricultural, Food, Environmental and Animal Sciences. Research collaboration under the agreement between the Autonomous Region of Friuli Venezia Giulia and the University of Udine on scientific and methodological support for the environmental and morphological assessment of the Marano and Grado Lagoon. Activities included: – Analysis of dune, salt-marsh and submerged vegetation, vegetation dynamics, vulnerable areas and conservation priorities; – Species distribution and vegetation-community modelling in the lagoon; – Assessment of environmental pressures, habitats and plant biodiversity under the Habitats Directive and protected-area regulations, with particular attention to biological invasions; – Updating vegetation maps and Natura 2000 habitat maps for monitored sites; – Planning salt-marsh restoration and preparing guidelines for the conservation of dune, salt-marsh and submerged vegetation. UNIVERSITY OF UDINE. DEPARTMENT OF AGRICULTURAL, FOOD, ENVIRONMENTAL AND ANIMAL SCIENCES. Via delle Scienze 206, 33100 Udine, Italy.
11/2017 –12/2019	Research activity at the University of Udine, Department of Agricultural, Food, Environmental and Animal Sciences.

	Research collaboration under the agreement “Studies to Identify the Ecological Network at the Local Scale” between the Municipality of Stregna and the University of Udine. Activities undertaken April–December 2018: GIS-based diachronic comparison of grassland extent across the municipality in 1994, 2003 and 2014; identification of grassland restoration priorities; and design of the Local Ecological Network. UNIVERSITY OF UDINE. DEPARTMENT OF AGRICULTURAL, FOOD, ENVIRONMENTAL AND ANIMAL SCIENCES. Via delle Scienze 206, 33100 Udine, Italy.
10/2017 – 03/2018	Research activity at the University of Udine, Department of Agricultural, Food, Environmental and Animal Sciences. Development of a local-scale ecological network model for the marine and terrestrial areas of the Trieste coast, under the agreement between WWF Italy and the University of Udine. Identification of target plant species, GIS ecological-network modelling and thematic mapping. UNIVERSITY OF UDINE. DEPARTMENT OF AGRICULTURAL, FOOD, ENVIRONMENTAL AND ANIMAL SCIENCES. Via delle Scienze 206, 33100 Udine, Italy.
03/07/2017 – 31/12/2017	Research collaborator at Cooperativa Naturalisti M. Gortani, under an agreement with the Friulian Museum of Natural History (Udine). Assignment under “Alien Plant Species of Friuli Venezia Giulia”, pursuant to an agreement with the Autonomous Region: updating the checklist of alien vascular plants and carrying out statistical analyses in R to relate invasive alien plant distribution to ecological and landscape indices. COOPERATIVA NATURALISTI MICHELE GORTANI SOC.COOP. A R.L. Via del Pioppo 3, 33100 Udine – UD. Tel 0432402108
05/2017 –07/2017	Research activity at the University of Udine, Department of Agricultural, Food, Environmental and Animal Sciences. Researcher under the cooperation agreement “Floristic Assessment of Grasslands Supplying Nectar-Plant Seeds and Selection of Indicator Species for Seed Characterisation”, with the Province of Udine, through the Friulian Botanical Garden, and the University of Udine (protocol no. 676, 2 June 2017). UNIVERSITY OF UDINE. DEPARTMENT OF AGRICULTURAL, FOOD, ENVIRONMENTAL AND ANIMAL SCIENCES. Via delle Scienze 206, 33100 Udine, Italy.
04/2017 – 12/2017	Research activity at the University of Udine, Department of Agricultural, Food, Environmental and Animal Sciences. Preliminary environmental assessment of the river corridor at the confluence of the Tolmezzo millrace and Tagliamento River, commissioned by Automotive Lighting Italia SpA in collaboration with the University of Udine. Vegetation characterisation, monitoring of water, sediment and vegetation parameters, and statistical assessment of potential phytoremediation by spontaneous plants. UNIVERSITY OF UDINE. DEPARTMENT OF AGRICULTURAL, FOOD, ENVIRONMENTAL AND ANIMAL SCIENCES. Via delle Scienze 206, 33100 Udine, Italy.
01/2016 – 12/2017	Research collaborator, Zurich University of Applied Sciences. Research in the vegetation analysis group and co-supervision of bachelor’s and master’s theses. INSTITUTE OF NATURAL RESOURCES SCIENCES, ZHAW ZURICH UNIVERSITY OF APPLIED SCIENCES, Grüental, P.O. Box CH-8820 Wädenswil (CH -ZURICH)
01/03/2014 – 28/02/2015	Research activity at the University of Udine, Department of Agricultural, Food, Environmental and Animal Sciences. Research participation in the EU Seventh Framework Programme project LIBERATION (Grant Agreement no. 311781), investigating ecological intensification of agriculture to improve environmental sustainability and food security.

	UNIVERSITY OF UDINE. DEPARTMENT OF AGRICULTURAL AND ENVIRONMENTAL SCIENCES. Via delle Scienze 208, 33100 Udine, Italy.
01/12/2013 – 28/02/2014	Fixed-term research collaboration, University of Udine, Department of Agricultural and Environmental Sciences. Collection and entry of cartographic, farm and baseline data at sample areas for Work Package B of the SEESPIG–AGER project. UNIVERSITY OF UDINE. DEPARTMENT OF AGRICULTURAL AND ENVIRONMENTAL SCIENCES. Via delle Scienze 208, 33100 Udine, Italy.
07/2010 - 12/2010	Fixed-term research collaboration, University of Udine, Department of Biology and Plant Protection. Field monitoring of Phragmites australis and Bolboschoenus maritimus in salt marshes, and Zostera marina, Zostera noltii and Cymodocea nodosa in submerged habitats of the Grado and Marano lagoons; sample collection and processing, database development and data analysis. UNIVERSITY OF UDINE. FACULTY OF AGRICULTURE. Via delle Scienze 208, 33100 Udine, Italy.
07/2010 –01/2011	Research collaboration, University of Udine, Faculty of Agriculture, Department of Agricultural and Environmental Sciences. Research project “Floristic Biodiversity and Habitats in Restored Areas of the Italcementi S. Giuseppe Limestone Quarry at Basovizza”: definition of the monitoring protocol and floristic/vegetation assessment of biodiversity and anthropogenic disturbance. UNIVERSITY OF UDINE. FACULTY OF AGRICULTURE. Via delle Scienze 208, 33100 Udine, Italy.
06/2010 - 09/2011	Research collaboration, University of Udine, Faculty of Agriculture, Department of Agricultural and Environmental Sciences. ALi.For.MiDI project: testing innovative LiDAR methods for mapping forest structure, forest types, carbon storage and hydrogeological risk mitigation. Assessment of laser-scanning data for forest vegetation characterisation, high-nature-value indices, vegetation mapping and phytosociological studies. UNIVERSITY OF UDINE. FACULTY OF AGRICULTURE. Via delle Scienze 208, 33100 Udine, Italy.
08/2009 - 09/2009	Research collaborator, University of Trieste, Department of Architectural and Urban Design. GIS processing of datasets for six river landscapes under the Friuli Venezia Giulia regional agreement: Livenza, Meduna–Cellina, Stella, Cormor, Fella and Natisone. UNIVERSITA' DEGLI STUDI DI TRIESTE, DIPARTIMENTO DI PROGETTAZIONE ARCHITETTONICA E URBANA,Via Valerio n. 12/2, 34100 Trieste.
07/2009	Visiting research period at the Institute of Natural Resource Sciences, Zurich University of Applied Sciences (ZHAW), Switzerland. Applied geobotanical research on secondary succession in pastures, plant–insect community relationships, primary succession in periglacial environments and restoration monitoring of Alpine grasslands. INSTITUTE OF NATURAL RESOURCES SCIENCES, ZHAW ZURICH UNIVERSITY OF APPLIED SCIENCES, Grüental, P.O. Box CH-8820 Wädenswil (CH -ZURICH)
06/2009 - 09/2009	Research collaborator, University of Camerino, Department of Environmental Sciences, Botany and Ecology Section.

	Monitoring of permanent plots in the CON.ECO.FOR. national network (Renon and Tarvisio sites): phytosociological and floristic field surveys and data entry. UNIVERSITA' DEGLI STUDI DI CAMERINO, DIPARTIMENTO DI SCIENZE AMBIENTALI, Via Pontoni, N. 5, 62032 Camerino.
05/2007 - 12/2007	Research collaborator, Friulian Museum of Natural History, Udine. Floristic surveys and specimen collection for Phase II of the "Flora of the Friulian Dolomites Nature Park" project, including photographic documentation, field reports and phytosociological descriptions. COMUNE DI UDINE - MUSEO FRIULANO DI STORIA NATURALE. Sede Legale: Via Lionello n. 1 - Sede Amministrativa: Via Marangoni nn. 39 e 41. I-33100 UDINE. Tel. 0432 584711
03/2007 - 09/2007	Research collaborator, University of Udine, Faculty of Agriculture, Department of Agricultural and Environmental Sciences. Research under a Friuli Venezia Giulia regional agreement on technical and scientific advice for conservation measures and management plans for Natura 2000 sites: Cellina Magredi (IT3310009), Magredi of Pordenone SPA and Trieste–Gorizia Karst (IT3340006), coordinated by CARTESIO (University of Udine) and the University of Trieste. UNIVERSITY OF UDINE. FACULTY OF AGRICULTURE. Via delle Scienze 208, 33100 Udine, Italy.
07/2006 - 12/2006	Research collaborator, Friulian Museum of Natural History, Udine. Floristic surveys and plant specimen collection for the "Flora of the Friulian Dolomites Nature Park" project, including photographic records, field reports, phytosociological analyses and literature review. COMUNE DI UDINE - MUSEO FRIULANO DI STORIA NATURALE, Sede Legale: Via Lionello n. 1 - Sede Amministrativa: Via Marangoni nn. 39 e 41. I-33100 UDINE. Tel. 0432 584711
05/2006 – 12/2006	Project collaborator, Cooperativa Naturalisti M. Gortani. Data entry and inventory of the botanical collections of the Friulian Museum of Natural History, Udine, including specimen preparation and scientific assistance at the Botany Section. COOPERATIVA NATURALISTI MICHELE GORTANI SOC.COOP. A R.L. Via del Pioppo 3, 33100 Udine – UD. Tel 0432402108
Professional consultancy and commissioned assignments	
	Professional consultancy and applied scientific services for public authorities, private companies and professional studios, including floristic and vegetation surveys, habitat mapping, environmental assessments, GIS analyses and planning for ecological conservation and restoration.
01/2020	Scientific lead for the consultancy "Vegetation and Nature Conservation Value of the Former Kermar Site, Concordia sulla Secchia (Modena)" for Bio Bimat Srl, Modena. UNIVERSITY OF UDINE. DEPARTMENT OF AGRICULTURAL, FOOD, ENVIRONMENTAL AND ANIMAL SCIENCES. Via delle Scienze 206, 33100 Udine, Italy.
07/2011 - 11/2011	Contract consultant, Comunità Collinare del Friuli. Coordination of Work Package 3 of the SUSPLAN project ("Sustainable Planning in Mountain Areas"): a technical report assessing application of the ESAMBI intrinsic environmental valuation method over the study area; GIS integration of the Carta Natura and landscape-unit datasets; and development of a georeferenced database and related indicators.

	COMUNITA' COLLINARE DEL FRIULI. Piazza Castello, 7 - 33010 Colloredo di Monte Albano (UDINE).
05/2011 - 07/2011	Consultant, Marcello Rollo Architectural Practice. Technical assessment of permanent grassland conservation status in the proposed expansion area of the Osoppo industrial district; proposals for updating the regional grassland inventory (Regional Law 9/2005). ARCHITETTURA ROLLO ARCH. MARCELLO. Via della Vittoria, 7/3 – 33100 UDINE.
01/2011 - 10/2011	Consultant, TecnoForest Associati. Organisation of scientific and technical monitoring of forests managed by the Municipality of Venice ("Bosco e Grandi Parchi"), including vegetation restoration monitoring, floristic diversity, vegetation dynamics and ecological gradients. STUDIO TECNOFOREST ASSOCIATI. Via Stringher Bonaldo, 25 - 33100 UDINE. COMUNE DI VENEZIA - ISTITUZIONE "BOSCO E GRANDI PARCHI". Viale Garibaldi, 44/a - 30173 Mestre - Venezia (VENEZIA)
11/2010	Consultant, AISATEC. Environmental screening for the construction of a photovoltaic installation in Via Fossadello, San Michele al Tagliamento (Venice). AISATEC – ARCHITETTURA·INGEGNERIA·SERVIZI AMBIENTE, Via Cairoli n.1 - 33170 Pordenone.
11/2010	Consultant, AISATEC. Landscape and vegetation consultancy for preliminary, definitive and executive design of a new food-production facility in Fagagna (Udine). AISATEC – ARCHITETTURA·INGEGNERIA·SERVIZI AMBIENTE, Via Cairoli n.1 - 33170 Pordenone.
01/2010 - 11/2010	Consultant, temporary professional association of M. Tommasella, G. Oriolo and C. Francescato. Habitat mapping and inventory of Habitats Directive-listed plant species in Natura 2000 sites IT3311001 (Magredi di Pordenone), IT3341002 (Karst areas of Venezia Giulia) and IT3340006 (Trieste and Gorizia Karst), under an agreement with the Autonomous Region of Friuli Venezia Giulia. ASSOCIAZIONE TEMPORANEA FRA PROFESSIONISTI DI TOMMASELLA M., ORIOLO G. E FRANCESCATO C.,Via Marziale n. 28, 34074 Monfalcone (GO).
08/2009	Consultant, AISATEC. Appropriate Assessment (VIncA) report for a photovoltaic project in Via Boldani, Mira (Venice). AISATEC – ARCHITETTURA·INGEGNERIA·SERVIZI AMBIENTE, Via Cairoli n.1 - 33170 Pordenone.
05/2009 - 11/2009	Consultant, temporary professional association of M. Tommasella, G. Oriolo and C. Francescato. Habitat mapping and inventory of Habitats Directive-listed plant species at Natura 2000 site IT3311001 (Magredi di Pordenone) under the Autonomous Region of Friuli Venezia Giulia assignment. ASSOCIAZIONE TEMPORANEA FRA PROFESSIONISTI DI TOMMASELLA M., ORIOLO G. E FRANCESCATO C.,Via Marziale n. 28, 34074 Monfalcone (GO).
11/2008 - 09/2009	Consultant, AISATEC. Consultancy and planning for environmental enhancement and landscape restoration works in Fratta, Municipality of Fossalta di Portogruaro, including preliminary and detailed design of lowland native woodland and biomass planting, environmental feasibility assessment and Natura 2000 Appropriate Assessment (VIncA).

COMUNE DI FOSSALTA DI PORTOGRUARO E AISATEC – ARCHITETTURA·INGEGNERIA·SERVIZI AMBIENTE, Via Cairoli n.1 - 33170 Pordenone.

Personal skills and competencies

Native language **Italian**

English language

Understanding				Speaking				Writing	
Listening		Reading		Spoken production		Spoken interaction			
B2	Upper intermediate	B2	Upper intermediate	B2	Upper intermediate	B1	Intermediate	B2	Upper intermediate

Digital and IT skills

OFFICE SOFTWARE:
Microsoft Office (Word, Excel, Access, PowerPoint),
OpenOffice

STATISTICS:
R,
SPSS
Minitab

GIS:
Quantum GIS,
ESRI ArcGIS,
MapInfo Professional,

IMAGE ANALYSIS:
ImageJ

DATABASE:
Access,
Microsoft SQL server,
MySLQ

CAD:
AutoCAD

GRAPHICS:
Inkscape
Adobe Photoshop,
Adobe Illustrator,
CorelDRAW.

Driving licence Category B driving licence

Appendices 1: PUBLICATIONS

APPENDIX I — SCIENTIFIC PUBLICATIONS

Indexed international journals:

OTTO, R., GARCÍA-DOMÍNGUEZ, P., CELOTTO, G., ASQUINI, E., **BOSCUTTI, F.**, SIERRA CORNEJO, N., DE NASCIMENTO, L., FERNÁNDEZ-PALACIOS, J. M. (2027) Post-fire tree mortality and regeneration in Pinus canariensis stands under different forest treatments. *Forest Ecology and Management*, *623*, 124378. https://doi.org/10.1016/j.foreco.2026.124378

BOSCAROL, G., DI FRANCESCO, A., BRAIDOT, E., VUERICH, M., **BOSCUTTI, F.**, VOLPE, V., FABRO, M., VRHOVŠEK, U., MORET, E., BALLICO, M., PETRUSSA, E. (2026) In vitro antifungal effect of plant-based and Ulva sp. Extracts on Aspergillus flavus growth and conidia germination. *Scientific Reports*. https://doi.org/10.1038/s41598-026-77811-z

BOSCAROL, G., PETRUSSA, E., TROTTA, G., SCARPIN, D., BRAIDOT, E., **BOSCUTTI, F.**, VOLPE, V., BARBIERI, S., CARON, V., MANZONI, L., STEL, L., FABRO, M., VUERICH, M. (2026) Environmental stress, plant traits, and their phenological legacies determine mycotoxin content in maize. *Agriculture, Ecosystems & Environment*, *402*, 110329. https://doi.org/10.1016/j.agee.2026.110329

CELESTI-GRAPOW, L., BRUNDU, G., CITTERIO, S., GALASSO, G., GENTILI, R., ALESSANDRINI, A., ARGENTI, C., BARNI, E., BONA, I., **BOSCUTTI, F.**, CASTELLO, M., MAINETTI, A., MARTINI, F., PROSSER, F., SELVAGGI, A., VILLANI, M., WILHALM, T., MONTAGNANI, C. (2026) Distribution of the invasive giant hogweed Heracleum mantegazzianum in Italy. *BioInvasions Records*, *15*(1), 1–11. https://doi.org/10.3391/bir.2026.15.1.01

DOMINA, G., BACCHETTA, G., BARTOLUCCI, F., D'ANTRACCOLI, M., PERUZZI, L., STINCA, A., ALESSANDRINI, A., BERNARDO, L., **BOSCUTTI, F.**, BOUVET, D., BOVIO, M., CALVIA, G., CAMBRIA, S., CONTI, F., DAGNINO, D., DEL GUACCHIO, E., GALASSO, G., GIGANTE, D., DI GRISTINA, E., … BARONE, G. (2026) Mapping the advancements in floristic knowledge of Italy (2005–2025). *Plant Biosystems*, *160*(4), 213. https://doi.org/10.1007/s44473-026-00207-4

LICCARI, F., TROTTA, G., SIGURA, M., BACARO, G., **BOSCUTTI, F.** (2026) The interplay of landscape connectivity, composition and configuration in alien plant invasions across an ecological network. *Landscape Ecology*, *41*(11), 223. https://doi.org/10.1007/s10980-026-02461-5

MACAULAY, S. O., MASET, E., **BOSCUTTI, F.**, CINGANO, P., TREVISAN, F., TROTTA, G., VUERICH, M., FUSIELLO, A. (2026) Transferring RGB-Pretrained CNNs to Multispectral UAV Imagery for Salt Marsh Vegetation Classification. *Remote Sensing*, *18*(4). https://doi.org/10.3390/rs18040655

MACDOUGALL, A. S., VANZANT, B., SULIK, J., BAGCHI, S., NAIDU, D., MURAINA, T. O., SEABLOOM, E. W., BORER, E. T., WILFAHRT, P., SLETTE, I., HIERRO, J. L., PEARSON, D. E., ABEDI, M., AKASAKA, M., ALBERTI, J., ALEKSANYAN, A., AMISU, A. A., ANDERSON, T. M., ARNILLAS, C. A., … SIEWERT, M. B. (2026) The global extent of the grassland biome and implications for the terrestrial carbon sink. *Nature Ecology & Evolution*, 1–12. https://doi.org/10.1038/s41559-025-02955-6

MARCOZ, G., TOMAO, A., BITUNJAC, D., **BOSCUTTI, F.**, DUVALTIER, C., MARJANOVIĆ, H., ORZAN, L., PIAZZA, N., ALBERTI, G. (2026) Beyond management: Proforestation enriches tree-related microhabitat diversity, but forest types determine their composition across Mediterranean and Alpine forests. *Forest Ecology and Management*, *614*, 123827. https://doi.org/10.1016/j.foreco.2026.123827

PELELLA, E., CANTINI, D., CESCHIN, S., PINZANI, L., LERNIA, D. D., ANDREATTA, S., BAGELLA, S., BARBIERI, G., BARNI, E., BARTOLUCCI, F., BEHRENS, E., BOLPAGNI, R., BONINI, I., **BOSCUTTI, F.**, BOUVET, D., CARIA, M. C., CANCELLIERI, L., CASAVECCHIA, S., D'AGOSTINO, M., … ANGIOLINI, C. (2026) Tracing plant invasions in freshwater habitats: Spatial and temporal insights from herbarium metadata. *Hydrobiologia*. https://doi.org/10.1007/s10750-026-06244-6

PICHIERRI, A., GARGIULO, S., SIVILOTTI, P., **BOSCUTTI, F.**, MASUTTI, G., DE LUCA, E., ZAMBON, Y., FALGINELLA, L., CASOLO, V. (2026) Smaller but sweeter: The response of grapevine cultivars to drought determines

organ interplay in non-structural carbohydrates allocation. *Environmental and Experimental Botany*, *241*, 106300. https://doi.org/10.1016/j.envexpbot.2025.106300

TOMASI, G., KLEIH, M., BERTOLLI, A., **BOSCUTTI, F.**, BONA, E., DELLAVEDOVA, R., SELVAGGI, A., ADORNI, M., ALESSANDRINI, A., ANDREATTA, S., ARDENGHI, N. M. G., ARGENTI, C., BOVIO, M., GALLINO, B., MAINETTI, A., MARTINI, F., PECCENINI, S., PROSSER, F., SCORTEGAGNA, S., … TROTTA, G. (2026) Characterization and distribution of the endemic flora in Northern Italy. *Plant Biosystems*, *160*(2), 80. https://doi.org/10.1007/s44473-026-00099-4

VICIANI, D., LONATI, M., NOTA, G., MINISSALE, P., ACOSTA, A. T. R., ADORNI, M., ALLEGREZZA, M., ANGIOLINI, C., ASSINI, S., BAGELLA, S., BOLPAGNI, R., BONARI, G., **BOSCUTTI, F.**, CANNUCCI, S., CASAVECCHIA, S., CICCARELLI, D., COMUNELLO, D., FRATTE, M. D., SIMONE, L.DE, … STINCA, A. (2026) An atlas of alien-dominated vegetation in Italy. *Vegetation Ecology and Diversity*, *63*, E197248. https://doi.org/10.3897/ved.197248

CINGANO, P., MORO, D., PELLEGRINI, E., ASQUINI, E., CONTIN, M., TROTTA, G., VUERICH, M., TREVISAN, F., SCAGNETTO, I., CASARSA, L., **BOSCUTTI, F.** (2025) Integrating remote sensing and functional traits to elucidate estuarine common reed beds decline driven by soil salinity and anoxia. *Ecological Indicators*, *180*, 114294. https://doi.org/10.1016/j.ecolind.2025.114294

CHELLI, S., BRICCA, A., PETRUZZELLIS, F., TORDONI, E., CALVIA, G., ACOSTA, A. T. R., BACARO, G., BECCARI, E., BERNARDO, L., BONARI, G., BOLPAGNI, R., **BOSCUTTI, F.**, CAMPETELLA, G., CANCELLIERI, L., CANULLO, R., CARBOGNANI, M., CARBONI, M., CARRANZA, M. L., CASTELLANI, M. B., … PUGLIELLI, G. (2025) ITV-net: A dataset of intraspecific leaf traits data across major Italian habitats. *Plant Biosystems - An International Journal Dealing with All Aspects of Plant Biology*, 1–7. https://doi.org/10.1080/11263504.2025.2531885

GAZZEA, E., GOBBO, D., MEI, M., PANICCIA, D., TROTTA, G., **BOSCUTTI, F.**, MARINI, L. (2025) Restoration of forests supports the conservation of pollinators in intensively managed agricultural landscapes. *Biological Conservation*, 302, 111008. https://doi.org/10.1016/j.biocon.2025.111008

LAMI, F., **BOSCUTTI, F.**, BARBIERI, S., FABRO, M., MASIN, R., NIKOLIĆ, N., SIGURA, M., MARINI, L. (2025) Drought conditions, tillage regime and soil phosphorous modulate the incidence of weeds, pests and pathogens in arable crops. *Scientific Reports*, 15(1), 24383. https://doi.org/10.1038/s41598-025-04042-z

LAMI, F., **BOSCUTTI, F.**, SANTOIEMMA, G., MARINI, L. (2025) TILLAGE REGIME SHAPES GROUND BEETLE DISTRIBUTION AND THEIR POTENTIAL FOR WEED CONTROL UNDER DROUGHT CONDITIONS. *Basic and Applied Ecology*, *89*, 128–135. https://doi.org/10.1016/j.baae.2025.11.001

SCARPIN, D., ESTE, G., D'ESTE, F., **BOSCUTTI, F.**, MILANI, A., PANOZZO, S., VAROTTO, S., VUERICH, M., PETRUSSA, E., BRAIDOT, E. (2025) Innovative multi-scale approach to study the phenotypic variation of seedling leaves in four weedy Amaranthus species. *Plant Biology*, 27(2), 310–322. https://doi.org/10.1111/plb.13752

TROTTA, G., FABRIS, P., VUERICH, M., PELLEGRINI, E., PETRUSSA, E., ASQUINI, E., CINGANO, P., CONTIN, M., **BOSCUTTI, F.** (2025) The interplay of soil stress, growth and functional traits of the native Cakile maritima determine the alien plant invasion success in coastal dunes. *Journal of Plant Ecology,* rtaf171. https://doi.org/10.1093/jpe/rtaf171

TROTTA, G., VUERICH, M., PETRUSSA, E., ASQUINI, E., CINGANO, P., **BOSCUTTI, F.** (2025) Capturing plant functional traits in coastal dunes using close-range remote sensing. *Ecological Informatics*, 88, 103159. https://doi.org/10.1016/j.ecoinf.2025.103159

TROTTA, G., CADEZ, L., **BOSCUTTI, F.**, VUERICH, M., ASQUINI, E., BOSCAROL, G., CINGANO, P., AZZANI, G., PISCHEDDA, S., TOMAO, A., ALBERTI, G. (2024) Interpreting the shifts in forest structure, plant community composition, diversity, and functional identity by using remote sensing-derived wildfire severity. *Fire Ecology,* 20(1), 94. https://doi.org/10.1186/s42408-024-00330-7

CINGANO, P., VUERICH, M., PETRUZZELLIS, F., ORZAN, L., TROTTA, G., CASOLO, V., ASQUINI, E., BACARO, G., **BOSCUTTI, F.** (2024) Seagrasses on the move: Tracing the multi-decadal species distribution trends in lagoon meadows using Landsat imagery. *Ecological Informatics*, 82, 102685. https://doi.org/10.1016/j.ecoinf.2024.102685

GARGIULO, S., **BOSCUTTI, F.**, CARRER, M., PRENDIN, A. L., UNTERHOLZNER, L., DIBONA, R., CASOLO, V. (2024) Snowpack permanence shapes the growth and dynamic of non-structural carbohydrates in Juniperus communis in alpine tundra. *Science of The Total Environment*, 948, 174891. https://doi.org/10.1016/j.scitotenv.2024.174891

LAMI, F., VUERICH, M., FABRO, M., ZANDIGIACOMO, P., BRAIDOT, E., PETRUSSA, E., BARBIERI, S., VOLPE, V., SIGURA, M., DELLE VEDOVE, G., **BOSCUTTI, F.** (2024) Sustaining multiple ecosystem functions in agricultural landscapes: Effect of summer cover crops on weed control, soil quality and support to pollinators. *Crop Protection*, 184, 106832. https://doi.org/10.1016/j.cropro.2024.106832

TROTTA, G., VUERICH, M., PELLEGRINI, E., VILÀ, M., ASQUINI, E., CINGANO, P., **BOSCUTTI, F.** (2024) Containing alien plants in coastal dunes: Evidence from a soil manipulation experiment. *Journal of Environmental Management,* 366, 121780. https://doi.org/10.1016/j.jenvman.2024.121780

LAMI, F., **BOSCUTTI, F.**, PECCOL, E., PIANI, L., DE LUCA, M., ZANDIGIACOMO, P., SIGURA, M. (2024) Biodiversity-Centric Habitat Networks for Green Infrastructure Planning: A Case Study in Northern Italy. *Sustainability*, 16(9), Article 9. https://doi.org/10.3390/su16093604

PUGLIELLI, G., BRICCA, A., CHELLI, S., PETRUZZELLIS, F., ACOSTA, A. T. R., BACARO, G., BECCARI, E., BERNARDO, L., BONARI, G., BOLPAGNI, R., **BOSCUTTI, F.**, CALVIA, G., CAMPETELLA, G., CANCELLIERI, L., CANULLO, R., CARBOGNANI, M., CARBONI, M., CARRANZA, M. L., CASTELLANI, M. B., … TORDONI, E. (2024) Intraspecific variability of leaf form and function across habitat types. *Ecology Letters,* 27(3), e14396. https://doi.org/10.1111/ele.14396

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