

Michele Di Musciano, Ph.D.

Researcher Tenure Track (RTT) at the University of L'Aquila

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Research Interests

I am an environmental biologist and researcher in applied botany at the University of L'Aquila, with a background in alpine ecology, ecological modeling, and plant trait analysis. My research focuses on understanding the past and present factors shaping diversity patterns and processes in plant communities from micro- to macro-scales. I am actively working on mountain ecosystems, aiming to disentangle the influence of microclimate, topography, and human activities on the multiple facets of plant biodiversity. I am also engaged in conservation biology research, trying to assess the effectiveness of protected areas in preserving biodiversity. Since 2023, I have been involved in projects focused on island ecosystems, including ongoing studies investigating the ecological dynamics of plant communities in small islands.

Main research Topics

- 1) Alpine ecology;
- 2) Ecological modelling;
- 3) Conservation Biology;
- 4) Vegetation science;
- 5) Island Biogeography.

Current work position

Researcher Tenure Track (RTT) tenure track

Feb 2025 - Today

University of L'Aquila, L'Aquila - Member of the research Group in Laboratory of Cartography, Ecology and Modelling (LACEMOD) - Member of the research Group in Biodiversity and Macroecology (BIOME) Alma Mater Studiorum - University of Bologna **GSD:** BIOS-01/C

Qualification

Italian National Scientific Habilitation (ASN)

2nd Level - Botany - 05/BIOS-01 (ex 05/A1)

Since 02 Dec 2023

Accademic experience

Junior Assistant Professor (RTD-A)

Feb 2022 - Jan 2025

University of L'Aquila, L'Aquila - Member of the research Group in Laboratory of Cartography, Ecology and Modelling (LACEMOD) - Member of the research Group in Biodiversity and Macroecology (BIOME) Alma Mater Studiorum - University of Bologna **GSD:** BIOS-01/C

Additional information: RTD-A - Ricercatore a tempo determinato lettera A) C. 3 ART. 24 L. 240/2010 - Programma Operativo Nazionale "Ricerca-Innovazione" 2014-2020 (PON) risorse FSE-REACT EU DM 10 08 2021, n. 1062; Azione IV.6 - Contratti di ricerca su tematiche Green - D.R. Rep. n. 1049/2021 Prot. N. 119177 del 19/11/2021 - CUP D.M. 1062/2021 E15F21004400001 - Project code: DM1062_GREEN_MESVA

Post-Doctoral fellowship**Sep 2020 – Jan 2022**

Department of Life, Health and Environmental Sciences (MESVA), University of L'Aquila, L'Aquila, Italy.

Title: Spatio-temporal dynamics in plant communities using innovative ecological modeling techniques.**Tutor:** Prof. Anna Rita Frattaroli **GSD:** BIOS-01/C.**Scholarship****Jun 2020 – Aug 2020**

Department of Life, Health and Environmental Sciences (MESVA), University of L'Aquila, L'Aquila, Italy.

Title: Monitoring and prediction of habitat conservation status using ecological modelling.**Tutor:** Prof. Anna Rita Frattaroli **GSD:** BIOS-01/C.**Projects coordination****Unit leader and Co-PI (Co-Principal Investigator) Prin 2022 PNRR****Nov 2023 – ongoing**

Title: Plant Biodiversity and Ecosystem Change in protected Areas: land Use impacts and Scenario Evaluation. **PI:** Prof. Francesco Maria Sabatini (University of Bologna). **D.D. n.** 1370 - 01-09-2023. **Macro-sector:** Life Sciences. **Sector:** LS8 - Environmental Biology, Ecology and Evolution. **Code:** P2022JM3RZ. **CUP:** E53D23013800001 **Budget:** 94.007,00 € - Competitive Research Funding -

Unit leader and Co-PI (Co-Principal Investigator) Prin 2022**Sep 2023 – ongoing**

Title: Identification of priority sites for the conservation of terrestrial animal and plant diversity to meet European and CBD 2030 targets. **PI:** Prof. Roberto Cazzolla Gatti (University of Bologna). **D.D. n.** 739 - 29-05-2023. **Macro-sector:** Life Sciences. **Sector:** LS8 - Environmental Biology, Ecology and Evolution. **Code:** 2022C8E2F4. **CUP:** E53D23007530006 **Budget:** 39.000,00 € - Competitive Research Funding -

Principal investigator - University project for basic research**May 2022 – Dec 2022**

Title: Understanding, predicting, and mitigating the impact of climate change consequences on high-altitude biodiversity in the central Apennines using a multitaxonic approach. **Funded by:** University of L'Aquila **Budget:** 15.000,00 €

Projects collaboration

Coordinator of floristic and vegetation research - PNAT project **May 2024 – Sep 2025** Coordinator of floristic and vegetation research within the project “**Monitorare per conservare la biodiversità di specie e habitat delle Isole Toscane**”, funded by the Tuscan Archipelago National Park. Activities include design and implementation of vegetation surveys, development of biodiversity monitoring protocols, data integration and collaboration with interdisciplinary research teams for the assessment of conservation status of species and habitats across islands of the Tuscan Archipelago.

Coordinator of the MIREN Rock - Central Apennine site**May 2024 – ongoing**

Title: Mountain Invasion Research Network (MIREN) rock survey - Monitoring site Central Apennines, Italy. **Project coordinator:** Koenraad Van Meerbeek

Associate Partner of the Horizon Europe**Apr 2024 – ongoing**

Title: Biodiversity Building Blocks for policy B3. **Coordinator:** Agentschap Plantentuin Meise. **DOI** 10.3030/101059592. **Funded under:** Food, Bioeconomy Natural Resources, Agriculture and Environment. **Grant agreement ID:** 101059592.

Member of the team MIREN - La Palma site**Mar 2024 – ongoing**

Title: Mountain Invasion Research Network (MIREN) - Monitoring site La Palma, Canary Islands, Spain. **Site coordinator:** Prof. Anke Jentsch

Member of the Scientific Advisory Board - TracEve **Mar 2023 – ongoing**
Title: Tracing the evergreen broad-leaved species and their spread. **Coordinator:** University of Innsbruck.
Link: <https://www.uibk.ac.at/en/projects/traceve/>

Data Contributor **Sep 2020 – ongoing**
Title: SoilTemp (global database of soil and near surface microclimate time series). **Contribute:** Data from several dataloggers (<50) placed in remote areas (encompassing high elevation of the Apennines and glacier).
Coordinator: Jonas Lembrechts. **Link:** <https://www.soiltempproject.com/>

Member Staff - Biodiversity Monitoring Plan **Aug 2020 – Apr 2021**
Title: Development of a National Plan for Biodiversity Monitoring. **Coordinator:** Prof. Alessandro Chiarucci. **Founded:** Italian Institute for Environmental Protection and Research (ISPRA)

Member of the core team - GLORIA - ITCAM site **June 2015 – ongoing**
Title: Global observation research initiative in alpine environments (GLORIA) - Monitoring site Central Apennines ITCAM. **Site coordinator:** Prof. Angela Stanisci

Institutional Responsibilities

President of the Conservation Committee; Member of the Executive Board of the **Society for Conservation Biology – Italy Chapter (SCB Italy)** **2024–present**
Elected President of the Conservation Committee and Member of the Executive Board of SCB Italy. Responsibilities include coordinating national initiatives on biodiversity conservation, supporting early-career researchers, and contributing to policy-oriented scientific dissemination within the Italian chapter of the Society for Conservation Biology.

Member of the communication and social media commission of the Department of Life, Health and Environmental Sciences (MESVA), University of L'Aquila, L'Aquila, Italy.

Academic activities

IN BRIEF

Summary of the teaching activities in the last 3 AYs

- AY 2023/24 **100h** bachelor and master degrees + **10h** Ph.D. school
- AY 2022/23 **90h** bachelor and master degrees + **14h** Ph.D. school
- AY 2021/22 **32h** bachelor and master degrees + **16h** Ph.D. school

PH.D. TUTORING AND LECTURING

Ph.D. Co-supervisor **Mar 2024 – ongoing**
Ph.D. candidate: Giacomo Cangemi at the University of L'Aquila **Title:** Biodiversity and Ecosystems Change in Protected Areas. **SSD:** BIOS-01/C (ex BIO/03).

Ph.D. Co-supervisor **Nov 2023 – ongoing**
Ph.D. candidate: Rocio Beatriz Cortes Lobos at Alma Mater Studiorum - University of Bologna **Title:** Deep learning for modelling current and future biodiversity scenarios. **SSD:** BIOS-01/C (ex BIO/03).

Ph.D. Co-supervisor **Nov 2022 – ongoing**
Ph.D. candidate: Lorenzo Ricci at the University of L'Aquila **Title:** The role of Protected Areas in conserving

Plant Biodiversity across Europe. **SSD:** BIOS-01/C (ex BIO/03).

Lecturer for the Ph.D. candidates of the Life and Environmental Science school; Department of Life, Health and Environmental Sciences (MESVA), University of L'Aquila, L'Aquila, Italy. **AY:** 2021/2022 **Course title:** Data management and biostatistics (16h); **AY:** 2022/2023 **Course title:** Data management, visualization and reporting using R (14h); **AY:** 2023/2024 **Course title:** Management of Biological and Environmental Data with R (10h).

TEACHING ACTIVITIES

Course lecturer: **Environmental Botany** (3CFU - 30h), **SSD:** BIOS-01/C (ex BIO/03). **Accademic year:** 2023-2024, **Semester:** II, **Degree program:** Master degree in Environmental Biology and Ecosystem Management. **Istitution:** Department of Life, Health and Environmental Sciences (MESVA), University of L'Aquila, L'Aquila, Italy.

Course lecturer: **Evolutionary Botany** (3CFU - 30h), **SSD:** BIOS-01/C (ex BIO/03). **Accademic year:** 2023-2024, **Semester:** II, **Degree program:** Bachelor degree in Biology. **Istitution:** Department of Life, Health and Environmental Sciences (MESVA), University of L'Aquila, L'Aquila, Italy.

Course lecturer: **Ecological Modelling** (3CFU - 30h), **SSD:** BIOS-01/C (ex BIO/03). **Accademic year:** 2023-2024, **Semester:** I, **Degree program:** Master degree in Environmental Biology and Ecosystem Management. **Istitution:** Department of Life, Health and Environmental Sciences (MESVA), University of L'Aquila, L'Aquila, Italy.

Course lecturer: **Management of Biological and Environmental Data with R Studio** (1CFU - 10h), **SSD:** BIOS-01/C (ex BIO/03). **Accademic year:** 2023-2024, **Semester:** I, **Degree program:** Bachelor degree in Environmental Science and Technology, optional course (AFO). **Istitution:** Department of Life, Health and Environmental Sciences (MESVA), University of L'Aquila, L'Aquila, Italy.

Course lecturer: **Environmental Botany** (3CFU - 30h), **SSD:** BIOS-01/C (ex BIO/03). **Accademic year:** 2022-2023, **Semester:** II, **Degree program:** Master degree in Environmental Biology and Ecosystem Management. **Istitution:** Department of Life, Health and Environmental Sciences (MESVA), University of L'Aquila, L'Aquila, Italy.

Course lecturer: **Systematic Botany** (3CFU - 30h), **SSD:** BIOS-01/C (ex BIO/03). **Accademic year:** 2022-2023, **Semester:** II, **Degree program:** Bachelor degree in Biology. **Istitution:** Department of Life, Health and Environmental Sciences (MESVA), University of L'Aquila, L'Aquila, Italy.

Course lecturer: **Management of Biological and Environmental Data with R Studio** (3CFU - 30h), **SSD:** BIOS-01/C (ex BIO/03). **Accademic year:** 2022-2023, **Semester:** I, **Degree program:** Bachelor degree in Environmental Science and Technology, optional course (AFO). **Istitution:** Department of Life, Health and Environmental Sciences (MESVA), University of L'Aquila, L'Aquila, Italy.

Course lecturer: **Environmental Botany** (3CFU - 24h), **SSD:** BIOS-01/C (ex BIO/03). **Accademic year:** 2021-2022, **Semester:** II, **Degree program:** Master degree in Environmental Biology and Ecosystem Management. **Istitution:** Department of Life, Health and Environmental Sciences (MESVA), University of L'Aquila, L'Aquila, Italy.

Course lecturer: **Introduction to R** (1CFU - 8h), **SSD:** not specified **Accademic year:** 2021-2022,

Semester: II, **Degree program:** Bachelor degree in Environmental Science and Technology, optional course (AFO). **Istitution:** Department of Life, Health and Environmental Sciences (MESVA), University of L'Aquila, L'Aquila, Italy.

Course lecturer: **Introduction to R and management of environmental data** (1CFU - 8h), **SSD:** not specified **Accademic year:** 2019-2020, **Semester:** I, **Degree program:** Master degree in Environmental Biology and Ecosystem Management, optional course (AFO). **Istitution:** Department of Life, Health and Environmental Sciences (MESVA), University of L'Aquila, L'Aquila, Italy.

Course lecturer: **Introduction to R** (1CFU - 8h), **SSD:** not specified **Accademic year:** 2018-2019, **Semester:** I, **Degree program:** Master degree in Environmental Biology and Ecosystem Management, optional course (AFO). **Istitution:** Department of Life, Health and Environmental Sciences (MESVA), University of L'Aquila, L'Aquila, Italy.

OTHER ACTIVITIES

Tutoring

Tutoring for practical lecture, course: **Statistical analysis and modelling - Module 2** (10h) Master degree in Science and Management of Nature. **Course lecturer:** Prof. Piero Zannini. **Accademic Year:** 2021-2022. **Semester:** I.

Tutoring for laboratory and fieldwork activities, course: **Plant Ecology** (6h) Bachelor degree in Environmental Science and Technology. **Course lecturer:** Prof. Anna Rita Frattaroli. **Accademic Years:** 2016-2017, 2017-2018, 2018-2019, 2019-2020. **Semester:** II.

Tutoring for laboratory and fieldwork activities, course: **Applied Botany** (6h) Master degree in Environmental Biology and Ecosystem Management. **Course lecturer:** Prof. Anna Rita Frattaroli. **Accademic Years:** 2016-2017, 2017-2018, 2018-2019, 2019-2020. **Semester:** II.

International Teaching

La Palma Science School organized by the University of Bayreuth (Germany) - **Teaching staff & scientific supervisor:** I have contributed as teaching staff and scientific supervisor in the La Palma Science School **every year since 2023**. The school takes place annually on La Palma Island (Canary Islands) and lasts two weeks, involving international MSc and PhD students in field-based training on biodiversity monitoring, vegetation dynamics and scientific writing. My contribution includes more than 16 hours of teaching and supervision per edition, covering field methods, vegetation sampling, ecological data analysis and scientific mentoring.

Extra-university teaching

Lecturer

Jan 2022 – May 2022

Title: Network for mycological diversity studies (ndm); **Contribute title:** Ecosystem and terrestrial habitat

Coordinator: Italian Institute for Environmental Protection and Research (ISPRA). **Link:** <https://ndm.isprambiente.it/attivita/educazione-e-formazione-ambientale/percorso-formativo-di-micologia-ambientale/>

Supervisor or co-supervisor

I have supervised or co-supervised more than **10 master's theses** and more than **20 bachelor's theses** both at the University of L'Aquila and at the University of Bologna

Third Mission and Technology Transfer

Co-founder and Administrator – bioStatys S.R.L.

2025–present

Co-founder and administrator of the academic spin-off bioStatys S.R.L., officially approved by the University of L'Aquila Board of Directors on 24 September 2025. The spin-off aims at transferring academic expertise in biodiversity monitoring, ecological modelling and spatial analysis to public and private stakeholders, strengthening the link between research, innovation and applied environmental management.

Coordinator and/or member of the Pop-Up for the Natural Science for the “**Researchers’ Night**” in several years from 2016 to 2023.

Support for the **PLS (Scientific Degrees Plan) project** of Department of Life, Health and Environmental Sciences (MESVA), through targeted meetings designed to inform middle and high school students about biodiversity and environmental sustainability.

Lead and participate as a speaker to local initiatives to raise awareness of environmental issues.

Accademic training

Ph.D. in Life and Environmental Science

Nov 2016 - Apr 2019

SSD: BIOS-01/C (ex BIO/03) **Dissertation:** ‘Elevation gradient of vascular plant distribution in the Central Apennines: diversity patterns and potential impact of global change.’ **Excellent cum laude**
University of L'Aquila, L'Aquila, Italy.

Graduation date: 02 Apr 2020

Advisor: Prof. Anna Rita Frattaroli;

Co-Advisor: Prof. Jean-Paul Theurillat

Dual Master’s Degree in Environmental Biology

Sep 2014 - Jul 2016

Master in Environmental Biology (LM6), University of L'Aquila, L'Aquila, Italy; Master in Ecosciences, Parcours Ecologie, Evolution, Biométrie, Université Claude Bernard Lyon 1, Lyon, France.

Thesis title: ‘Vegetation analysis in the permanent plots of GLORIA project in Majella National Park: a synchronic approach to identify the key species for monitoring climate change.’ **110/110 cum laude.**

Graduation date: 23 Lug 2016

Advisor: Prof. Anna Rita Frattaroli;

Co-Advisor: Prof. Angela Stanisci

Bachelor’s Degree in Environmental Science and technology

Sep 2011 - Jul 2014

Bachelor in Environmental Science and technology (L32), University of L'Aquila, L'Aquila, Italy.

Thesis title: Adattamenti morfo-fisiologici della flora d’alta quota con particolare riferimento all’endemismo Adonis distorta. **108/110.**

Graduation date: 18 Lug 2014

Advisor: Prof. Anna Rita Frattaroli;

Co-Advisor: Dott. Valter Di Cecco

TRAINING EXPERIENCE

Visiting PhD Student

Nov 2017 - Dec 2017

Aims: Disentangle the patterns of species richness and composition from a set of nested vegetation plots along two elevation transects in Italy.

Spatial Ecology Lab. ECOSPAT, Department of Ecology and Evolution, University of Lausanne, Switzerland

Tutor: Prof. Antoine Guisan

Alpine Plant Ecology Summer School

Jul 2018

Organized by: University of Basel and the Alpine Research Station Furka (ALPFOR).

Furka Pass, 2440 m a.s.l., Swiss central Alps, Switzerland.

Lecturer Prof. Christian Körner, Prof. Jürg Stöcklin, Prof. Jonathan Levine, Dr. Erika Hiltbrunner

Stage at the “Centre alpin de Phytogéographie”

Jul 2018

Aims: Sampling alpine vegetation. Alpine Garden “Flore-Alpe”, Champex-Lac, Switzerland.

Tutor: Prof. Jean Paul Theurillat

Traineeship at Maiella National Park

Apr 2015 - Sep 2015

Aims: Laboratory activities focused on germination ecology, ex-situ conservation, restocking and reintroduction of threatened species, seeds collection. Seeds bank and botanical garden “Michele Tenore”.

Tutor: Dott. Luciano Di Martino

Professional and technical skills

DATA MANAGEMENT SKILLS

Proficient in **data management and analysis**.

Proficient in results **visualization and reporting**.

Deep knowledge of the **statistical analysis applied to ecology**.

A wide experience in **ecological modelling**.

Excellent knowledge of **R language** and good of Python and Julia.

Proficient in GIS program: **QGIS and ArcGIS**.

A wide experience in satellite image management: **Google Earth Engine**.

Good knowledge of image analysis: **ImageJ, Gimp, Adobe Photoshop**.

FIELD & LAB. SKILLS

Proficient in plant species and **vegetation monitoring**.

Deep knowledge of **fieldwork**, with more than 10 years of experience in high-altitude environments.

A wide experience in **plant traits** collection.

Excellent knowledge of **datalogger management** mainly applied to air and soil temperature and/or humidity.

A little experience in **arthropod sampling**.

Publications

BIBLIOMETRICS INDICATORS

Document: 53; **Cited by:** 1431; **h-index:** 19 (Scopus)

SCIENTIFIC ARTICLES

Nascimbene J.; Di Musciano M.; Gheza G. (2025) **Resampling epiphytic lichens in coniferous forests of the Southern Alps: Veteran trees promote compositional stability** - *Perspectives in Plant Ecology, Evolution and Systematics* - 69, 1433-8319 - **doi:** 10.1016/j.ppees.2025.125904

Francesconi L.; **Di Musciano M.**; Conti M.; Di Nuzzo L.; Gheza G.; Grube M.; Mayrhofer H.; Martellos S.; Nimis P. L.; Pistocchi C.; Vallese C.; Nascimbene J. (2025) **Range Shift and Climatic Refugia for Alpine Lichens Under Climate Change** - *Diversity and Distributions* - 31, 1472-4642 - doi: 10.1111/ddi.70079

Sabatini F. M.; **Di Musciano M.**; Chiarucci A. (2025) **Using Yearly-Resolved Time Series to Disentangle Interannual Variability, Directional Change, and Pseudoturnover in Plant Community Composition** - *Journal of Vegetation Science* - 36, 1654-1103 - doi: 10.1111/jvs.70052

Vetaas O. R.; Steinbauer M. J.; Beierkuhnlein C.; Robson B.; Field R.; Irl S. D. H.; **Di Musciano M.**; Chiarucci A. (2025) **Testing of Drivers for Plant Species Diversity Along Elevational Gradients on Seven Mountainous Islands in the Subtropics** - *Journal of Vegetation Science* - 36, 1654-1103 - doi: 10.1111/jvs.70053

Groom Q.; Abraham L.; Adriaens T.; Breugelmans L.; Clarke D. A.; **Di Musciano M.**; Dove S.; Estupinan-Suarez L. M.; Faulkner K. T.; Fernandez M.; Hendrickx L. A.; Hui C.; Joly A.; Kumschick S.; Langerhaert W.; Martini M.; Miller J.; Oldoni D.; Pereira H.; Preda C.; Robertson T.; Rocchini D.; Rodrigues A.; Ryckewaert M.; Seebens H.; Sica Y. V.; Teixeira H.; Trekels M.; Vandaele T.; Wilson J. R. U.; Zengeya T.; Desmet P. (2025) **Creating the vision of rapid, repeatable, reactive data workflows for policy on biodiversity** - *Ecological Solutions and Evidence* - 6, 2688-8319 - doi: 10.1002/2688-8319.70113

Bonari G.; Bricca A.; Tomasi G.; Dorigatti L.; Bertolli A.; Andreatta D.; Sabatini F. M.; **Di Musciano M.**; Prosser F. (2025) **Grassland Changes in the Eastern Alps Over Four Decades: Unveiling Patterns Along an Elevation Gradient** - *Applied Vegetation Science* - 28, 1654-109X - doi: 10.1111/avsc.70012

Di Musciano M.; Zannini P.; Testolin R.; Sabatini F. M.; Santovito D.; Jiménez-Alfaro B.; Jansen F.; Chytrý M.; Ricci L.; Agrillo E.; Attorre F.; Biurrun I.; Bonari G.; Bruun H. H.; Cao Pinna L.; Čarni A.; Carranza M. L.; Cazzolla Gatti R.; Dengler J.; De Sanctis M.; Fitzpatrick Ú.; Frattaroli A. R.; Garbolino E.; Hennekens S.; Jandt U.; Jansen J.; Kacki Z.; Knollová I.; Lenoir J.; Moeslund J. E.; Peterka T.; Pipenbaher N.; Rocchini D.; Ruprecht E.; Růsňa S.; Šilc U.; Škornik S.; Swacha G.; Valachovič M.; Vassilev K.; Willner W.; Chiarucci A. (2025) **Representativeness of the Natura 2000 network for preserving plant biodiversity in the European Union** - *Conservation Biology* - 1523-1739 - doi: 10.1111/cobi.70158

Di Musciano M.; Calvia G.; Ruggero A.; Farris E.; Ricci L.; Frattaroli A. R.; Bagella S. (2024) **Elevational patterns of plant species richness and phylogenetic diversity in a Mediterranean island** - *Perspectives in Plant Ecology, Evolution and Systematics* - 65, 1433-8319 - doi: 10.1016/j.ppees.2024.125815

Di Cecco V.; Manzi A.; Zulli C.; **Di Musciano M.**; D'Archivio A. A.; Di Santo M.; Palmerini G.; Di Martino L. (2024) **Study of Grapevine (*Vitis vinifera* L.) Seed Morphometry and Comparison with Archaeological Remains in Central Apennines** - *Seeds* - 3, 2674-1024 - doi: 10.3390/seeds3030023

Santi F.; Testolin R.; Zannini P.; **Di Musciano M.**; Micci V.; Ricci L.; Guarino R.; Bacchetta G.; Fernández-Palacios J. M.; Fois M.; Kougioumoutzis K.; Kunt K. B.; Lucchi F.; Médail F.; Nikolić T.; Otto R.; Pasta S.; Panitsa M.; Proios K.; Sfenthourakis S.; Simaiakis S. M.; Tranne C. A.; Triantis K. A.; Chiarucci A. (2024) **MEDIS—A comprehensive spatial database on Mediterranean islands for biogeographical and evolutionary research** - *Global Ecology and Biogeography* - 33, 1466-8238 - doi: 10.1111/geb.13855

Ricci L.; **Di Musciano M.**; Sabatini F. M.; Chiarucci A.; Zannini P.; Gatti R. C.; Beierkuhnlein C.;

Walentowitz A.; Lawrence A.; Frattaroli A. R.; Hoffmann S. (2024) **A multitaxonomic assessment of Natura 2000 effectiveness across European biogeographic regions** - *Conservation Biology* - 38, 1523-1739 - doi: 10.1111/cobi.14212

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I.; Mihal I.; Ostonen I.; Borovská J.; Roales J.; Shoqair J.; Lata J.-C.; Theurillat J.-P.; Probst J.-L.; Zimmerman J.; Vijayanathan J.; Tang J.; Thompson J.; Doležal J.; Sanchez-Cabeza J.-A.; Merlet J.; Henschel J.; Neirynek J.; Knops J.; Loehr J.; von Oppen J.; Þorlákssdóttir J. S.; Löffler J.; Cardoso-Mohedano J.-G.; Benito-Alonso J.-L.; Torezan J. M.; Morina J. C.; Jiménez J. J.; Quinde J. D.; Alatalo J.; Seeber J.; Stadler J.; Kriiska K.; Coulibaly K.; Fukuzawa K.; Szlavetz K.; Gerhátoová K.; Lajtha K.; Käppeler K.; Jennings K. A.; Tielbörger K.; Hoshizaki K.; Green K.; Yé L.; Pazianoto L. H. R.; Dienstbach L.; Williams L.; Yahdjian L.; Brigham L. M.; van den Brink L.; Rustad L.; Zhang L.; Morillas L.; Xiankai L.; Carneiro L. S.; Di Martino L.; Villar L.; Bader M. Y.; Morley M.; Lebouvier M.; Tomaselli M.; Sternberg M.; Schaub M.; Santos-Reis M.; Glushkova M.; Torres M. G. A.; Giroux M.-A.; de Graaff M.-A.; Pons M.-N.; Bauters M.; Mazón M.; Frenzel M.; Didion M.; Wagner M.; Hamid M.; Lopes M. L.; Apple M.; Schädler M.; Weih M.; Gualmini M.; Vadeboncoeur M. A.; Bierbaumer M.; Danger M.; Liddell M.; Mirtl M.; Scherer-Lorenzen M.; Růžek M.; Carbognani M.; **Di Musciano M.**; Matsushita M.; Zhiyanski M.; Puşcaş M.; Barna M.; Ataka M.; Jiangming M.; Alsafran M.; Carnol M.; Barsoum N.; Tokuchi N.; Eisenhauer N.; Lecomte N.; Filippova N.; Hölzel N.; Ferlian O.; Romero O.; Pinto O. B.; Peri P.; Weber P.; Vittoz P.; Turtureanu P. D.; Fleischer P.; Macreadie P.; Haase P.; Reich P.; Petřík P.; Choler P.; Marmonier P.; Muriel P.; Ponette Q.; Guariento R. D.; Canessa R.; Kiese R.; Hewitt R.; Rønn R.; Adrian R.; Kanka R.; Weigel R.; Gatti R. C.; Martins R. L.; Georges R.; Meneses R. I.; Gavilán R. G.; Dasgupta S.; Wittlinger S.; Puijalon S.; Freda S.; Suzuki S.; Charles S.; Gogo S.; Drollinger S.; Mereu S.; Wipf S.; Trevathan-Tackett S.; Löfgren S.; Stoll S.; Trogisch S.; Hoeber S.; Seitz S.; Glatzel S.; Milton S. J.; Dousset S.; Mori T.; Sato T.; Ise T.; Hishi T.; Kenta T.; Nakaji T.; Michelan T. S.; Camboulive T.; Mozdzer T. J.; Scholten T.; Spiegelberger T.; Zechmeister T.; Kleinebecker T.; Hiura T.; Enoki T.; Ursu T.-M.; di Cella U. M.; Hamer U.; Klaus V. H.; Régo V. M.; Di Cecco V.; Busch V.; Fontana V.; Piscová V.; Carbonell V.; Ochoa V.; Bretagnolle V.; Maire V.; Farjalla V.; Zhou W.; Luo W.; McDowell W. H.; Hu Y.; Utsumi Y.; Kominami Y.; Zaika Y.; Rozhkov Y.; Kotroczó Z.; Tóth Z. (2018) **Early stage litter decomposition across biomes** - *Science of The Total Environment* - 628–629, 0048-9697 - **doi:** 10.1016/j.scitotenv.2018.01.012

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Di Cecco V.; **Di Musciano M.**; Gratani L.; Catoni R.; Di Martino L.; Frattaroli A. R. (2017) **Seed germination and conservation of two endemic species from Central Apennines (Italy)** - *Plant Sociology* - 2280-1855 - **doi:** 10.7338/pls2017541S1/08

OTHER SCIENTIFIC CONTRIBUTION

Theurillat J.-P.; **Di Musciano M.**; Duckert O.; Béguin C. (2021) **Symphytosociology, a Tool for Landscape Monitoring: A Case Study from the Swiss Alps** - *Tools for Landscape-Scale Geobotany and Conservation* - 2198-2570 - **doi:** 10.1007/978-3-030-74950-7_14

Congress and conferences

In brief

Oral Communications = 17

Invited speaker = 1

Poster = 9

Member of the Scientific Committee = 2

Member of the Organizing Committee = 2

SPEAKER, INVITED SPEAKER OR MEMBER OF THE ORGANIZING/SCIENTIFIC COMMITTEE

Annual Meeting of German High Mountain Researchers (Jahrestagung des AK Hochgebirge) (AKH) - **Di Musciano M.**, Ricci L., Theurillat J.P., Cutini M., Sabatini F.M., Cangelmi G., Frattaroli A.R. - Microclimate matters: Soil Temperature and Plant Community Dynamics in High Mountain Ecosystems. - **Speaker** - Waischenfeld, Germany (2025-05-16 - 2025-05-18).

2nd Conference of Conservation Biology for Early Career Researchers – SCB Italy (SCB-ECR) - **Di Musciano M.** - **Leader of the Organizing Committee** - L'Aquila, Italy (2025-05-06 - 2025-05-09).

119th Annual Symposium of the Italian Botanical Society (SBI) - **Di Musciano M.**, Ricci L., Sabatini F.M., Geldmann J., Frattaroli A.R., Chiarucci A. - Habitats or not Habitats that's the question: what European report provides (or not) to assess conservation gaps in European Habitats? - **Speaker** - Teramo, Italy (2024-09-11 - 2024-09-13).

7th European Congress of Conservation Biology: Biodiversity positive by 2030 (ECCB) - **Di Musciano M.**, Ricci L., Sabatini F.M., Geldmann J., Frattaroli A.R., Chiarucci A. - Conservation gaps of Natura 2000 (N2K) network in preserving European Habitat: an accurate prioritization is needed. - **Speaker** - Bologna, Italy (2024-06-17 - 2024-06-21).

Orchids and tourism in the Maiella National Park (MNP) - **Di Musciano M.** - Protected Areas and Biodiversity Conservation: Challenges and Opportunities in a Changing World - **Invited speaker** - Palena, Italy (2024-05-17 - 2024-05-18).

4th Mediterranean Plant Conservation Week (MPCW) - **Di Musciano M.**, Ricci L., Alessi N., Sabatini F.M., Chiarucci A., Frattaroli A.R., Di Martino L., Di Cecco V., Geldmann J. - Effectiveness of protected areas on Italian forest in the Mediterranean biogeographical region. - **Speaker** - Valencia, Spain (2023-10-23 - 2023-10-27).

4th International Conference on Community Ecology (ComEc) - **Di Musciano M.**, Ricci L., Theurillat J.P., Cutini M., Iocchi M., Frattaroli A.R. - Dynamics of mountain vegetation under global change: the microclimate role. - **Speaker** - Trieste, Italy (2023-09-20 - 2023-09-22).

65th Annual Symposium of the International Association for Vegetation Science (IAVS) - **Di Musciano M.**, Ricci L., Theurillat J.P., Cutini M., Iocchi M., Frattaroli A.R. - Soil Temperature and microtopography shape plant communities dynamic along altitudinal gradients. - **Speaker** - Coffs Harbour, Australia (2023-09-03 - 2023-09-08).

2nd Conference of Young Botanists (CYBO) - **Di Musciano M.** - **Member of the Scientific Committee; Chair** - Bozen, Italy (2023-02-09 - 2023-02-10).

Microclimate Ecology & Biogeography Conference (MEB) - **Di Musciano M.**, Ricci L., Theurillat J.P., Cutini M., Iocchi M., Frattaroli A.R. - Soil Temperature and its related variables shape species richness

dynamic along an altitudinal gradient in the Central Apennines (Italy). - **Speaker** - Antwerp, Belgium (2022-08-29 - 2022-09-01).

55th Annual Symposium of the Italian Association of Vegetation Science (SISV) - **Di Musciano M.**, Calvia G., Ruggero A., Farris E., Frattaroli A.R., Bagella S. - Elevation patterns of species richness on the Mediterranean island using a published flora. - **Speaker; Member of the Scientific Committee; Member of the Organizing Committee; Secretary of the Conference** - L'Aquila, Italy (2022-06-16 - 2022-06-17).

54th Annual Symposium of the Italian Association of Vegetation Science (SISV) - **Di Musciano M.**, Theurillat J. P., Cutini M., Iocchi M., Ricci L., Zannini P., Chiarucci A., Frattaroli A.R. - Pattern and drivers of plant beta diversity along an elevational gradient of Central Apennines (Italy). - **Speaker** - Virtual Meeting (2021-09-27 - 2021-09-29).

116th Annual Symposium of the Italian Botanical Society (SBI) - **Di Musciano M.**, De Simone W., Di Cecco V., Ferella G., Frattaroli A.R. - Monitoring vegetation dynamics after wildfire events in Mediterranean mountain using satellite data. - **Speaker** - Virtual Meeting (2021-09-08 - 2021-09-10).

115th Annual Symposium of the Italian Botanical Society (SBI) - **Di Musciano M.**, Theurillat J.P., Cutini M., Iocchi M., Frattaroli A.R. - Soil Temperature and its related variables shape species richness dynamic along an altitudinal gradient in the Central Apennines (Italy). - **Speaker** - Virtual Meeting (2020-09-09 - 2020-09-11).

28th Meeting of the European Vegetation Survey (EVS) - **Di Musciano M.**, Theurillat J.P., Guisan A., Bronnimann O., Cutini M., Iocchi M., Frattaroli A.R. - Modelling vegetation composition and plant richness across spatial scales and environmental gradients in Central Apennines mountains. - **Speaker** - Madrid, Spain (2019-09-02 - 2019-09-06).

53rd Annual Symposium of the Italian Association of Vegetation Science (SISV) - **Di Musciano M.**, Di Cecco V., Ricci L., Di Martino L., Frattaroli A.R. - Dispersal ability of European vascular flora, relationship with altitudinal distribution and life-history categories. - **Speaker** - Sassari, Italy (2019-05-30 - 2019-05-31).

Workshop RIBES: contribution towards the 2020 Global Strategy for Plant Conservation targets (RIBES) - Di Cecco V., **Di Musciano M.**, D'Archivio A., Frattaroli A.R., Di Santo M., Di Martino L. - Ecoseeds – New tools for germination analysis - **Speaker** - Galbiate (Parco Monte Barro), Italy (2019-04-16 - 2019-04-17).

Plant Traits 2.0 (SBI) - **Di Musciano M.**, Stanisci A., Frate L., Di Cecco V., Di Martino L., Frattaroli A.R. - The importance of dispersal traits in mountain environment to predict changes in plant species distribution under climate warming, the case study on central Apennines GLORIA summits. - **Speaker** - Bologna, Italy (2017-02-09 - 2017-02-10).

POSTER

66th Annual Symposium of the International Association for Vegetation Science (IAVS) - **Di Musciano M.**, Damasceno G., Sabatini F.M., Ricci L., Cangelmi G., Beierkuhnlein C., Jentsch A., Field R., Vetaas O.R., Chiarucci A., Frattaroli A.R., Bruelheide H. - Abiotic factors shape plant co-occurrence affinities - **Poster** - Funchal (Madeira), Portugal (2024-09-16 - 2024-09-20).

11th Biennial Conference of the International Biogeography Society (IBS) - **Di Musciano M.**, Santi F., Testolin R., Zannini P., Micci V., Ricci L., Guarino R., Bacchetta G., Fernández-Palacios J.M., Fois M.,

Kougioumoutzis K., Kunt K.B., Lucchi F., Medail F., Nikolic T., Otto R., Pasta S., Panitsa M., Proios K., Sfenthourakis S., Simaiakis S.M., Tranne C.A., Triantis K.A., Chiarucci A. - MEDIS - A Comprehensive Spatial Dataset on Mediterranean Islands for Biogeographical and Evolutionary Research - **Poster** - Prague, Czech Republic (2024-01-07 - 2024-01-11).

7th Seed Ecology Conference of the International Society for Seed Science (ISSS) - **Di Musciano M.**, Berrilli E., Frattaroli A.R., Ricci L., Di Cecco V., Di Martino L., Kaliontzopoulou A. - The evolution of plant dispersal syndromes and seed traits: evolutionary cues and diversification - **Poster** - Gijon (Asturias), Spain (2022-09-06 - 2022-09-09).

64th Annual Symposium of the International Association for Vegetation Science (IAVS) - **Di Musciano M.**, Ricci L., Thouverai E., Rocchini D., Zannini P., Alessi N., Cervellini M., Di Cecco V., Miozzo M., Chiarucci A., Frattaroli A.R. - An overview of wildfire events across Europe in the last 15 years: impacts on the major vegetation types - **Poster** - Madrid, Spain (2022-06-27 - 2022-07-01).

3rd Mediterranean Plant Conservation Week: from Science to Practice (MPCW) - **Di Musciano M.**, Di Cecco V., Bartolucci F., Conti F., Frattaroli A.R., Di Martino L. - Conservation strategies of threatened species should consider their dispersal ability - **Poster** - Creta, Greece (2021-09-27 - 2021-10-01).

28th Meeting of the European Vegetation Survey (EVS) - **Di Musciano M.**, Di Cecco V., Frattaroli A.R., Carranza M.L., Stanisci A., Di Martino L. - Exploring dispersion ability of high mountain species along environmental gradients. An insight in central Apennine. - **Poster** - Madrid, Spain (2019-09-02 - 2019-09-06).

111th Annual Symposium of the Italian Botanical Society (SBI) - **Di Musciano M.**, Stanisci A., Frate L., Di Cecco V., Frattaroli A.R. - Key plant species to monitor climate change effect at high elevation in Majella National Park - **Poster** - Roma, Italy (2017-09-21 - 2017-09-23).

112th Annual Symposium of the Italian Botanical Society (SBI) - **Di Musciano M.**, Stanisci A., Frate L., Carranza M.L., Di Cecco V., Di Martino L., Frattaroli A.R. - Nurse plant effect along mountain vertical gradients. An insight in central Apennine. - **Poster** - Parma, Italy (2017-09-20 - 2017-09-22).

51st Annual Symposium of the Italian Association of Vegetation Science (SISV) - **Di Musciano M.**, Di Cecco V., De Simone W., Ferella G., Gratani L., Catoni R., Frattaroli A.R. - Quantify ecosystems services of grassland at Campo Imperatore upland plain (Central Apennines, Italy). - **Poster** - Bologna, Italy (2017-04-20 - 2017-04-22).

Awards

Top Downloaded Article: Diversity of European habitat types is correlated with geography more than climate and human pressure **Published in:** Ecology and Evolution **Role:** First author equally contributing

B3 Hackaton winner: Team 8 - Virtual B3 - How reliability and uncertainty of biodiversity sampling affect SDM: build virtual species to cope with real problems! **Role:** Member of the winner team. **Brussels, Belgium – 2 - 3 Apr 2024**

Travel award: Annual Symposium of the International Association for Vegetation Science. **Role:** Oral communication as first author. **Coffs Harbour, Australia – 3 - 8 Sep 2023**

Travel award: Annual Conference of the Italian Botanical Society. **Role:** Poster presentation as first author.
Parma, Italy – 20 - 23 Sep 2017

Editorial or reviewer activities

Managing Guest Editor **May 2022 - Jul 2024**
Special issue: ‘Perspectives and applications of free and open source software in ecology.’
Journal: Ecological Informatics

Review Editor in Biogeography and Macroecology **Apr 2024 - ongoing**

Journal: Frontiers in Ecology and Evolution

Reviewer for: PloS One; Journal of Biogeography; Journal of Vegetation Science; Scientific Reports, Ecological Informatics, Plant Ecology, Plant Biosystem, Community ecology, Communications earth & environment.

Languages

Italian Native Speaker
English Advanced (C1)
French Upper intermediate (B2)
Spanish Elementary (A2)

Membership to Scientific Societies

Società Italiana di Scienze della Vegetazione (SISV) - since 2017
International Association for Vegetation Science (IAVS) - since 2021
International Biogeography Society (IBS) - since 2023
Founder member of the Society for Conservation Biology Italian Chapter (SCB Italy) - since 2022

Freelance experience

Professional collaboration to perform vegetation survey in the Sirente-Velino Regional Park **Aims:** Verifying the correspondence of the preliminary Habitat Map to refine the distribution of the Habitat Natura 2000 within the Park’s boundary. **Nov 2022 - Dec 2022**

Professional collaboration to elaborate the Environmental Technical Report aimed at defining the possible effects that the activities to realize the “Bike to coast” could generate at the expense of the Regional Natural Reserves “Ripari di Giobbe”. “Interventions of completion of the ‘Bike to coast’ – CUP 71B18000100002. **May 2023**

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L'Aquila
05/12/2025

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