

Michele Di Musciano – Short CV

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Table of contents

Michele Di Musciano	1
Research Interests	1
Current Position	1
Key Projects	2
Selected Publications	2
Academic Teaching & Supervision	2
Conferences & Presentations	2
Academic Background	3
Technical Skills	3
Other Activities	3
Languages	3
Personal Data	3

Michele Di Musciano

Environmental biologist and Assistant Professor in Applied Botany

Email / GitHub / ORCID

Research Interests

Plant community ecology, conservation biology, ecological modeling, mountain and island biodiversity. Focus on understanding diversity patterns and ecological processes under global change using field-based and modeling approaches.

Current Position

Senior Assistant Professor (RTT) – University of L’Aquila (Feb 2025 – Present)
Member of LACEMOD (L’Aquila) and BIOME (University of Bologna)

Key Projects

Co-PI – PRIN 2022 PNRR (Nov 2023 – ongoing)

Plant Biodiversity and Ecosystem Change in protected Areas (Budget: €94,007)

Co-PI – PRIN 2022 (Sep 2023 – ongoing)

Priority sites for conservation to meet CBD 2030 targets (Budget: €39,000)

PI – Local Project (2022)

Climate change impacts on high-altitude biodiversity in the Apennines (Budget: €15,000)

Coordinator – MIREN Rock Central Apennines (2024 – ongoing)

Partner – Horizon Europe B3, Traceve, GLORIA ITCAM, SoilTemp

Selected Publications

- Di Musciano et al. (2024). *Elevational patterns of plant diversity on a Mediterranean island*, PPEES
- Ricci, Di Musciano et al. (2024). *Effectiveness of Natura 2000*, Conservation Biology
- Kemppinen, Di Musciano et al. (2024). *Microclimate and biogeography*, GEB
- Lussu, Di Musciano et al. (2024). *Terrestrial orchids conservation*, Biological Conservation

Full list available on [ORCID](#)

Academic Teaching & Supervision

- Lecturer in: Environmental Botany, Evolutionary Botany, Ecological Modelling, R for Ecology
- PhD Co-supervisor: 3 candidates (UnivAQ and UNIBO, 2022–ongoing)
- PhD Lecturer: Biostatistics, Data Management & Visualization with R

Conferences & Presentations

Speaker and organizer in major international and national congresses: - ECCB 2024 (Bologna) - SBI 2024 (Teramo) - MPCW 2023 (Valencia) - IAVS 2023 (Australia) - MEB 2022 (Antwerp)

Academic Background

Ph.D. in Environmental Sciences – University of L'Aquila (2019)

Dissertation: Elevational gradients of vascular plants in the Apennines

MSc in Environmental Biology / MSc in Ecosciences – University of L'Aquila & Université

Claude Bernard Lyon 1 (2016)

110/110 cum laude – Thesis on GLORIA project and climate change

BSc in Environmental Science and Technology – University of L'Aquila (2014)

Technical Skills

- R (advanced), Python, Julia (basic)
- Ecological modelling, statistical analysis, data visualization
- GIS: QGIS, ArcGIS, GEE, remote sensing
- Fieldwork: vegetation surveys, dataloggers, plant traits monitoring

Other Activities

- Member: GLORIA, MIREN, SoilTemp, TracEve
- Science communication: “Researchers’ Night”, PLS outreach
- Supervised >10 MSc and >20 BSc theses

Languages

Italian: Native

English: Fluent

Personal Data

I authorize the processing of my personal data pursuant to Legislative Decree 196/2003 and GDPR (EU Regulation 2016/679).