



Alessandro Mari

Nationality: | Date of birth:  Phone number:

 Email address:

 LinkedIn:

 GitHub:

 Home:

EDUCATION AND TRAINING

M.Sc. in Science and Management of Nature

University of Bologna [27/09/2018 – 18/03/2021]

City: Bologna | Country: Italy | Final grade: 110/110 e lode | Level in EQF: EQF level 7 | Thesis: Optimal nitrogen values for butterflies of Western Europe in an anthropogenic context: a calculation approach

B.Sc. in Astronomy

University of Bologna [03/08/2015 – 13/12/2018]

City: Bologna | Country: Italy | Final grade: 110/110 | Level in EQF: EQF level 6 | Thesis: Relativistic effects in Astrophysics

WORK EXPERIENCE

Research Scholarship

University of Urbino [01/01/2024 – 30/06/2024]

City: Urbino | Country: Italy

Project: Orbital Forcing and Mid-Cretaceous Black Shales: A Case Study from the Fucoid Marls Formation

Activities/Achievements:

- High-resolution sampling of the Fucoid Marls from the Monte Petrano section
- Calimetric and magnetic properties analysis
- Cyclostratigraphic analysis
- Production of a peer-reviewed publication

Softwares: R, Astrochron, Acycle, QAnalySeries

Financial analyst (remote)

SOFI design [01/12/2023 – 31/12/2023]

City: Malgesso | Country: Italy

Activities:

- Conducted revenue analysis to identify key geographical and product trends and uncover areas for improvement.

Softwares: Microsoft PowerBI

Scientific traineeship

Joint Research Centre - European Commission [01/12/2022 – 30/04/2023]

City: Ispra | Country: Italy

Objective: To carry out data analysis work in support to the Observatory of Critical Technology (OCT)

Main activities/achievements:

1- Research & Innovation and Landscape mapping for Semiconductors

- Bibliometric analysis
- Patent analysis

2- Supply-chain analysis of LiDAR technology

- Assessment of supplier-customer relationships
- Identification of supply chain

Softwares: VOSviewer, SciVal (bibliometric analysis), R, Python, LLMs API integration (data analysis)

Research scholarship

University of Turin [01/01/2022 – 06/06/2022]

City: Turin | Country: Italy

Project: Statistical approaches for the optimization of the national monitoring plan for Lepidoptera

Achievements:

- Managed data collection and cleansing processes for ecological datasets.
- Developed and applied statistical models to assess biodiversity indices.
- Performed analytical assessments to determine monitoring requirements for species conservation.

Softwares: R, QGIS

Collaboration

De Vlinderstichting (Dutch Butterfly Conservation) [19/07/2021 – 11/11/2021]

City: Wageningen | Country: Netherlands

Project: Annual Report 2020 for the Italian Butterfly Monitoring Scheme (ITBMS)

Achievements:

- Performed comprehensive data cleansing and analysis for ecological monitoring data.
- Production of an national technical report, showcasing analytical findings (DOI:10.13140/RG.2.2.21152.51207)

Softwares: R, RMarkdown

Erasmus + Traineeship

De Vlinderstichting (Dutch Butterfly Conservation) [21/04/2021 – 16/07/2021]

City: Wageningen | Country: Netherlands

Project: A reproducible report template for the newest Butterfly Monitoring Schemes (BMSs)

Achievements:

- Developed a reproducible R script for efficient ecological data analysis.
- Created a standardized report template using RMarkdown, enhancing reporting consistency and efficiency

Softwares: R, RMarkdown, LaTeX

M.Sc. Thesis Internship

De Vlinderstichting (Dutch Butterfly Conservation) [21/04/2020 – 15/10/2020]

City: Wageningen | Country: Netherlands

Project: Developing a novel indicator to track the impact of nitrogen deposition on biodiversity using butterflies as biological indicators

Achievements:

- Developed and validated a Generalized Additive Model (GAM) to analyze ecological data.
- Applied the model for ecological assessment across Western European regions.

Softwares: R

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English - IELTS Certification: score 8/9

Spanish

LISTENING C1 READING C1 WRITING C1

LISTENING A2 READING A2 WRITING A2

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1 SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

COMMUNICATION AND INTERPERSONAL SKILLS

Teamwork, collaboration and adaptability I have a strong track record of collaborative working with other people both in professional and social settings. Through my previous work experiences and extracurricular activities, I have developed excellent communication and interpersonal skills, which enable me to work comfortably and confidently as part of a team. I understand the importance of shared goals, mutual respect, and open communication in achieving success and I am committed to contributing to a positive team environment in any work setting.

ANALYTICAL SKILLS

Problem-solving and research skills

I have a firm ability for independent investigation and research, particularly in scientific fields, gained through my experiences and trainings. I am skilled at identifying areas for improvement and delivering practical solutions that drive progress and innovation.

HOBBIES AND INTERESTS

Sports Experienced padel and tennis player. Football, running, yoga.

Music Proficient knowledge of piano and guitar.

Cooking Passionate home cook with a brief period of employment in a restaurant kitchen.

DRIVING LICENCE

Driving Licence: B