



Francesco Maria D'Antiga

● ABOUT ME

MSc Environmental Engineer and Data Analyst, with a big passion for mountain and forests, specialized in Life cycle assessment (LCA), Environmental Footprints and modelling, including AI knowledge base development.

● WORK EXPERIENCE

 **CENTRO EURO-MEDITERRANEO SUI CAMBIAMENTI CLIMATICI | UNIVERSITÀ CA' FOSCARI VENEZIA** – VENICE, ITALY

Business or Sector Professional, scientific and technical activities |

Department Risk Assessment and Adaptation Strategies Division | **Website** <https://www.cmcc.it/it>

JUNIOR RESEARCH ASSOCIATE – 09/2025 – CURRENT

Collaboration contract as junior researcher, supporting risk analysis, geospatial and remote sensing evaluations and AI modeling for two projects:

- Horizon Europe Coast-Scapes ("rethinking COASTal landSCAPES with climate-resilient interventions: systemic land-to-sea solutions").
- Horizon Europe AGILE ("Agnostic Risk Management for High impact Low Probability Events").

 **QUANTIS A BCG COMPANY** – MILAN, ITALY

Business or Sector Agriculture, forestry and fishing | **Department** Food and Beverage | **Website** <https://quantis.com/it/>

INTERN, RISK AND SUSTAINABILITY DATA ANALYST – 09/2024 – 08/2025

Full time internship as data analyst for a sustainability consulting firm, whose main activities were:

- Developing tools and models to generate custom environmental emission factors for Life Cycle Assessment of products and companies, as well as for carbon emissions (Excel VBA and Python).
- Interacting with customers and stakeholders, to convert their needs into project tasks.
- Calculating Carbon Footprints and LCAs for products and entire companies.
- Creating insights on emissions across the entire value chain of international producers of Food and Beverage products, clients examined were all above 15 millions € in revenue.

More in depth:

Worked at an international consulting firm, re-elaborating data from supply chains, product manufacturing and databases to conduct sustainability reports, product life cycle studies, production emission hotspot analysis and to create tools and datasets related to them. High focus on data cleaning, client interaction, data collection and gap analysis; created deliverables (presentations, tools and data files) for third party audited reports and for compliance with GRI, CSRD and ISO regulations. Trained in GIS and physical risk modelling with internal specialized courses.

 **ARCSYSTEM S.R.L.** – PADOVA, ITALY

Business or Sector Electricity, gas, steam and air conditioning supply | **Website** <https://arcsystem.it/>

ELECTRIC POWER LINE ENGINEERING ASSISTANT – 03/2021 – 08/2021

Full time job as technical support for electric power grid construction projects, whose main activities were:

- Reviewing municipalities maps databases for electric power grid construction.
- Engaging and maintaining contact with all stakeholders involved in the project.
- Organizing and collecting legal paperwork for project authorization.

More in depth:

Use basic GIS tools to compare property maps with the power grid project maps, search and contact all the entities affected by the construction, get approval and authorization for the construction, prepare and collect all the necessary paperwork. This required to find ways to make a successful first contact with sever stakeholders, privates, companies, municipalities, and create the starting point for a positive relationship between them, ARCSystem and the construction company.

 **ESOSPHERA S.R.L.** – PADOVA, ITALY

Business or Sector Information and communication | **Website** <https://www.esosphera.com/>

AI DATA ANALYST – 07/2020 – 01/2021

Student job that was converted after the summer to part time, whose main activites were:

- Collecting, organizing and evaluating data from chatbot to customer interactions.
- Designing and clusterization of data into training datasets.
- Creating methodology for AI knowledge base upscaling.
- Developing and updating the internal test for effectiveness of AI knowledge base.

More in depth:

The position consisted in analysing all the historical conversations that the AI chatbot stored for a specific sector and develop a first approach to authomatic data clustering and noise filtering of the data coming from customer interaction. This led to the creation of a testing system for the evolving Knowledge base (KB) of the AI, a methodology for having the KB expand autonomously and a practical approach to how to sell chatbots to sectors without any data.

 **SPIN LIFE S.R.L.** – PADOVA, ITALY

LCA & FOOTPRINT RESEARCHER INTERNSHIP – 10/2019 – 02/2020

Full time thesis related internship, focusing on bibliographical research, whose main activities were:

- Identifying across all literature all studies focusing on Nitrogen emissions using either Footprinting or LCA methodology.
- Creating a ranking system to compare the soundness and completeness of the two methodologies for each study.
- Creating a synthesis of proposed approaches to understand the feasibility of a holistic Nitrogen Footprint indicator.

More in depth:

Conducted a full literature analysis on Nitrogen emissions, reviewing more than 900 papers, created a ranking system to identify the most relevant studies based on steps of LCA methodology, steps of the Nitrogen Cycle and different environmental impact indicators included. Reorganized the 21 studies selected in different tables, to better comprehend the methodologies and their similarities and evaluate the state of the art for Nitrogen Footprinting.

● **EDUCATION AND TRAINING**

09/2021 – 08/2023 Kgs. Lyngby, Denmark

MASTER DEGREE IN ENVIRONMENTAL ENGINEERING, SPECIALIZED IN RESIDUAL RESOURCES DTU - Technical University of Denmark

Main focuses of the chosen line of study:

- Modelling of environmental fluxes, impacts and pollution.
- Time series analysis, machine learning and gray modeling.
- LCA and footprints.
- Air pollution.
- Forestry and Landscape modelling.
- Terrestrial ecology.

Most relevant projects:

Data reconstruction and statistical analysis of 25 years long forest data, ISO compliant LCA study for Major pharmaceutical company, created and tested models for time series analysis (including specialized PhD course) for wind turbines energy predictions.

Field of study Environmental protection technology , Environmental sciences , Environment not elsewhere classified , Natural sciences, mathematics and statistics not further defined , Forestry , Personal skills and development , Database and network design and administration , Software and applications development and analysis

Final grade 7 (Danish scale) 99 (conversion to Italian scale) | **Level in EQF** EQF level 7 | **Type of credits** ECTS |

Number of credits 120 |

Thesis Title - Characterization of the ecosystem internal N cycle with litter fall analysis, Supervisor - Andreas Ibrom

2015 – 11/2020 Padova, Italy

BACHELOR DEGREE IN ENVIRONMENTAL ENGINEERING University of Padova

- Water related topics: Environmental Hydraulics (acqueducts and wastewater), Hydrology.
- Other environmental topics: Environmental Economics, Life Cycle Assessment, Environmental Labeling.

Field of study Environmental protection technology | **Final grade** 90/110 | **Level in EQF** EQF level 6 |

Type of credits Credito Formativo Universitario (CFU/ECTS) | **Number of credits** 180 |

Thesis Title - Nitrogen Footprint applications based on LCA approach: review and future perspectives, Supervisor - Filippo Zuliani

07/2024 Padova, Italy

NATIONAL ITALIAN HABILITATION: ENVIRONMENTAL ENGINEER University of Padova

12/2023 Padova, Italy

NATIONAL ITALIAN HABILITATION: AGROTECHNITIAN University of Padova

20/11/2023 – CURRENT Italy

COURSE UNI EN ISO 14001:2015 - AUDITOR AND LEAD AUDITOR CERTIFICATION ISàpere School of Business Srl

Website <https://www.fad.isapere.com/>

● **LANGUAGE SKILLS**

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C2	C1	C1	C1
SPANISH	A1	A2	A1	A1	A1

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

● **SKILLS**

Office package | Python | R Coding | VBA Excel | LATEX | SLACK | LCA Software: SimpaPro

● **OTHER COMPETENCES**

Automunito patente B

● **ORGANISATIONAL SKILLS**

Organisational skills

- Excellent teamwork skills, knowledge of task subdivision and workload management

- Excellent team-leading skills acquired as head of a scout group, which includes the management of a group of adolescent boys and a staff of adult animators
- Excellent logistics skills, management of travel, educational and recreational activities
- Excellent collaborative and team player skills acquired over the many years as a basketball player

● **COMMUNICATION AND INTERPERSONAL SKILLS**

Communication and interpersonal skills

- Excellent interpersonal skills with known and unknown people, acquired through experiences as an amateur theater actor
- Excellent lexical and communicative reactivity skills acquired as an improv actor
- Great communication skills acquired through 10 years as a scout leader, managing communications with families and local authorities.
- Excellent interpersonal skills with young people, teenagers and children acquired during different experiences working in summer camps

Last update: September 2025