

Cristina Cipriano

Transdisciplinary environmental scientist with a holistic skillset in the hard-science, economic- and social-science components of environmental studies. Interested in helping foster sustainable and environmentally responsible strategies to adapt to as well as mitigate the impelling threats of climate change. Engaged in basic research, informal science, and public outreach.

WORK EXPERIENCE

Post-Degree Researcher

03/2023 – Present | Viterbo, Italy

CMCC Foundation • Euro-Mediterranean Center on Climate Change

[1] *Impacts on Agriculture, Forests and Ecosystem Services (IAFES) Division • CMCC Foundation*

[2] *National Biodiversity Future Center (NBFC)*

- Investigating climate change impacts on terrestrial ecosystems using several advanced statistical approaches.
- NBFC Spoke 4. *Activity 4.1*: Advanced systems for monitoring, studying and managing biodiversity, its organization, and the associated ecosystem functions and services in relation to natural and anthropic impacts.
- NBFC Spoke 4. *Activity 4.2*: Adaptation and mitigation of terrestrial ecosystems to climate change, including ecological responses and future forecast scenarios.

Member of the Italian Coordination Team

01/2023 – Present | Italy

GYBN • Global Youth Biodiversity Network

The Global Youth Biodiversity Network is the youth constituency of the United Nations Convention on Biological Diversity (CBD).

- Helping launch and represent the Italian chapter of GYBN in the negotiations under the Convention on Biological Diversity.
- Raising awareness among young people of the values of biodiversity.
- Connecting individuals and youth organizations aimed at building a global coalition to halt the loss of biodiversity.

Technical-Scientific Translator

07/2022 | Milan, Italy

Umberto Veronesi Foundation

The Umberto Veronesi Foundation promotes scientific research and prevention, health education and science dissemination projects.

- Translation of educational content from Italian to English for scientific dissemination videos on social media.
- Topics: scientific research, science and ethics, nutrition, lifestyles, primary and secondary prevention, pollution.

Research Trainee

01/2022 – 09/2022 | Milan, Italy

Università degli Studi di Milano

Analysis of the taxonomic and functional diversity of protists in deglaciated soils by using environmental DNA metabarcoding.

This work is part of IceCommunities, a project funded under Excellent Science by the European Research Council.

- Defining a first global functional classification and database for protists, including a broad range of functional traits.
- Conducting global scale soil protist communities analyses, testing the influence of global and local environmental predictors.

Ambassador

09/2020 – 12/2021 | Italy and Europe

Thought For Food Foundation

TFF is the world's leader in next-generation innovation and startup acceleration for food and agriculture.

- Hosting meetups, events, and activities to raise awareness regarding sustainability in food systems.
- Serving as a United Nations Food Systems Summit Dialogues facilitator.
- Stakeholder engagement. Playing a leading role in regional, national, and international partnerships.

Selected Guest Lecturer and Speaker Experience

2017-2021 | Italy and USA

Lecturer • **Massachusetts Institute of Technology, MIT Media Lab**

Global Community Bio Summit lecture on work carried out with Binomica Labs.

• **Benedictine University, College of Science and Health**

Lectured students of the B.Sc. in Biological Sciences, BIOL 3391.

• **Università degli Studi di Napoli Federico II, Department of Agriculture**

Lectured students of the B.Sc. in Viticulture and Enology and of the M.Sc. in Oenological Sciences.

Speaker • **TEDx Taranto and TEDx Foggia**

TEDx Taranto 2018 *Contaminazioni positive*, TEDx Foggia 2020 *Live for Future*.

• **Maker Faire European Edition opening conference ceremony**

2018 edition *Pioneers of the future*. Keynote speaker.

Mentor • **Fondazione Golinelli, Progetto ICARO [2020]**

ICARO is an entrepreneurial excellence journey for university students, aiming to create concrete solutions based on problems and challenges launched by local and national companies through the adoption of open innovation and contamination strategies.

• **Futura MIUR [2018]**

Futura is an acceleration platform for the future, dedicated to the Italian School, and contributing to the implementation of the National Digital School Plan. Keynote speaker and mentor throughout the organization of FuturaAvellino Experience Tour 2018.

• **Campus Party IT Hackathon Big Data and AI [2017]**

Board Member | Independent Researcher

01/2017 – 05/2020 | New York, USA

Binomica Labs

Binomica Labs is an independent and educational research group whose scientific practice is also turned into curricula for students.

- Planning and performing experiments. Collecting, recording, and analyzing data.
- Interpreting results. Drawing inferences and conclusions.
- Presenting results to the board. Writing educational content and developing educational and training strategies.

Experience in Genetic engineering | Electronic engineering | 3D design | 3D printing

- Building a molecular biology laboratory, minimal yet well-equipped for independent basic research.
 - Designing and building open-source, modular, compact, rechargeable, and affordable scientific equipment (under 30\$ each).
 - Modulating bioluminescence through controlled minimal media in bioluminescent bacteria (i.e. *Aliivibrio fischeri*), aimed at investigating the minimal nutritional needs to sustain life.
- *Interview by Earlham Institute*

Chief Editor | Content Manager

10/2015 – 03/2018 | Palermo, Italy

Il Positivismo

Science communication webzine focused on science news, the environment, and innovation. Online from 2015-2018.

- Hiring and training writers and editors. Approving layout, design, style, and tone. Reviewing written content for errors.
- Fact-checking information. Providing suggestions for edits when needed. Making final publishing decisions.
- SEO and SEM content optimization.

Research Trainee

10/2013 – 05/2014 | Rome, Italy

CNR • Italian National Research Council

Position held between the Institute of Translational Pharmacology and the European Brain Research Institute laboratories.

Study of neuroprotective and reparative therapies in experimental models using NGF (Nerve Growth Factor).

- Collaborating with team members on diverse project responsibilities.
- Performing routine laboratory maintenance and research activities:
 - general housekeeping, preparing solutions, stains, and buffers;
 - executing biochemical procedures (i.e. electrophoresis, blotting, chromatography, etc.).

EDUCATION

M.Sc. in Environmental Change and Global Sustainability (LM75)

10/2022 | Milan, Italy

curriculum ► **Environmental Systems: Management and Sustainability**

Università degli Studi di Milano

Grade 110/110 cum laude

Thesis on the *Analysis of the taxonomic and functional diversity of protists in deglaciated soils by using environmental DNA metabarcoding.*

B.Sc. in Biological Sciences (L13)

09/2020 | Salerno, Italy

Università degli Studi di Salerno

Grade 107/110

Thesis on *Microfluidic technologies for environmental applications: modern and sustainable approaches to biological complexity.*

CERTIFICATES

Tropical Forests Landscapes Conservation and Restoration • Yale University

Strategic Communication for Sustainability Leaders • University System of Maryland

Learning from Data (**Machine Learning**) • Caltech

Introduction to **R for Data Science** • Microsoft

Introduction to **Python for Data Science** • Microsoft

LANGUAGES • Italian, English, French (*all native*) | German (A2 spoken, B1 written)

IT SKILLS • R | Python | GIS (ArcGIS Pro, ArcGIS Online, QGIS) | SimaPro | CAD 3D | ImageJ | Google Workspace | Microsoft 365

INTERESTS AND SUPPORTED CAUSES • Biodiversity | Environmental activism | Political engagement | Communication | Open science and innovation | Transnational intersectionality | LGBTQIA+ rights | Mental health | Trekking