

Camilla Foggia

WORK EXPERIENCE

FAO AND SAPIENZA UNIVERSITY OF ROME

INFORMAL COLLABORATION - FAO GREEN CITIES INITIATIVE – 04/2025 – CURRENT

Project Title: Green Cities Initiative

Climate and flood vulnerability analyses in 10 African cities in the countries: Ivory Coast, Kenya, Uganda, Mozambique, Algeria.

Reports are prepared for each city to provide to the countries' stakeholders, in which the results of the analyses are presented, that are:

- Climate Vulnerability Maps: Extreme Rain Days, Heatwave Occurrence Days, Temperature Mean Anomalies.
- Maps of vulnerability to storm surge flooding (for coastal cities): Coastal Vulnerability Model.
- Mapping of areas within cities that are most at risk of flooding due to extreme rainfall events: Urban Flood Risk Mitigation Model.
- Assessment of sea level rise (projections to 2050 and 2100): IPCC AR6 Scenario SSP1-2.6, SSP3-7.0.

SAPIENZA UNIVERSITY OF ROME

RESEARCH GRANT - ENVIRONMENTAL MODELING – 06/2025 – CURRENT

Research entitled: "Environmental modeling for national-scale habitat classification and mapping"

Climate and environmental data collection (by remote sensing) for the development of habitat classification models in Italy.

FAO FOOD AND AGRICULTURE ORGANIZATION

FAO - CONSULTANT: CLIMATE CHANGE AND GEOSPATIAL SPECIALIST – 02/2025 – 05/2025

Project: GCP/GLO/052/ITA Sustainable mountain development (SMD)

Division: Forestry (NFO), Mountain Partnership

Activities performed:

Assess Land Degradation, Climate Vulnerability, Remoteness, Drought, Socio-Economic Vulnerability at national level for Afghanistan, Albania and Montenegro through Remote Sensing and GIS software (Google Earth Engine, QGIS, Trends.Earth plugin).

Help provide online training on how to calculate the indicators mentioned above and workshops to generate country-level vulnerability maps and assist the project in preparing reports to characterize the pilot areas in Afghanistan, Albania and Montenegro from an environmental and socio-economic perspective.

Assist in the preparation of work plans for these areas through the implementation of online and on-site activities, including the collection of datasets and analysis of geospatial data to assess the pilot areas.

Conducting data collection and analytical research in the field of sustainable mountain development, climate change, and biodiversity conservation.

Provide technical assistance in project management, document review, and assistance in drafting project proposals.

 **LA SAPIENZA UNIVERSITY OF ROME; FAO FOOD AND AGRICULTURE ORGANIZATION; ISPRA** – ROME, ITALY



RESEARCH GRANT: ANALYSIS OF THE LAND USE CHANGES IN ITALY USING COLLECT EARTH – 12/2023 – 04/2024

This work aimed to analyze land use changes in Italy (between 2000 and 2020) through the use of Collect Earth remote sensing software.

 **FAO FOOD AND AGRICULTURE ORGANIZATION** – ROME, ITALY

FAO - REGULAR VOLUNTEER PROGRAMME – 11/2022 – 05/2023

During the contract period, I worked within the **GEF-7 Sustainable Forest Management Impact Programme on Dryland Sustainable Landscapes (DSL-IP)** project, using the **Collect Earth** remote sensing software, including preparation of survey files for the project sites, grid creation and data collection. In addition to this technical part, I worked on financial and management aspects within the **PMU** (Project Management Unit) with budgets, deliverables and workplans.

 **SAPIENZA UNIVERSITY OF ROME**

COLLABORATION SCHOLARSHIP – 2021 – 2022

I worked at the **Museum of Zoology** of the Sapienza University of Rome, where I was in charge of classifying Diptera, in particular: Tachinidae, Sarcophagidae, Calliphoridae, Rhinophoridae.

 **SAPIENZA UNIVERSITY OF ROME**

COLLABORATION SCHOLARSHIP – 2017 – 2020

At the **Presidency of the Faculty of Mathematical, Physical and Natural Sciences**, I was in charge of compiling databases for administrative managers, and of participating in orientation days for future students of the Faculty.

EDUCATION AND TRAINING

09/2021 – 12/2024 Rome, Italy

MASTER'S DEGREE IN ECOBIOLOGY (LM-6) Sapienza University of Rome

During my master's degree I did an experimental thesis with the objectives of: (i) mapping mangroves along the entire coast of Mozambique as of 2013 and 2023; (ii) creating a coastal vulnerability model in relation to extreme weather events such as cyclones and floods.

This allowed me to understand what were the areas of high mangrove loss (between 2013 and 2023), and areas at high risk of flooding. In this way, I was able to develop highly informative maps and charts for different stakeholders, highlighting priority intervention areas along the coast on which to focus economic resources for mangrove reforestation interventions to mitigate the effects of future flooding.

Address Piazzale Aldo Moro, 5, 00185, Rome, Italy |

Field of study Conservation biology, Remote sensing, GIS, Ecology, Restoration ecology | **Final grade** 110/110 Cum Laude |

Type of credits ECTS | **Number of credits** 120 |

Thesis Mangrove cover dynamics and vulnerability of Mozambique's coast in face of extreme weather events

09/2017 – 07/2021 Rome, Italy

BACHELOR'S DEGREE IN NATURAL SCIENCE (L-32) Sapienza University of Rome

During my three-year degree course, I acquired knowledge both in the **geological** and **biological** fields, to have an overview of **ecosystems** and the problems that afflict them in this period of rapid **climate change**.



Junior Biologist and Junior Geologist.

Address Piazzale Aldo Moro, 5, 00185, Rome, Italy |

Field of study Biology , Environmental sciences , Natural environments and wildlife , Earth sciences , Mathematics , Physics , Chemistry

Final grade 104 | **Type of credits** ECTS | **Number of credits** 180 |

Thesis Effects of Climate Change on Seabirds: Svalbard as a Case Study

2012 – 2017 Rome, Italy

SCIENTIFIC HIGH SCHOOL Liceo Scientifico Amedeo Avogadro

Address Via Cirenaica, 7, 00199, Rome, Italy

COURSES AND CERTIFICATES

2024

General occupational health and safety training for workers and equivalents

Issued by: Sapienza University of Rome

Type of credits: ECTS

Number of credits: 1

Workplace safety course

2024

Marine Data 4 Coastal Monitoring

Issued by: Copernicus Marine Service and Mercator Ocean International

Fields of study: Remote sensing, Statistics, Climate change, Coastal Monitoring

2023

Summer School Course "ManGrowth - Preservation of Ecosystems for Sustainable Development"

Conducted by: AICS, Universidade Eduardo Mondlane, Sapienza University of Rome

City: Inhaca (Maputo)

Country: Mozambique

Type of credits: ECTS

Number of credits: 9

Fields of study: Ecology, Zoology, Botany, Socio-Economics

Five Italian and five Mozambican students have been selected for the Summer School "ManGrowth - Preservation of Ecosystems for Sustainable Development."

The Summer School included a three-week period on Inhaca Island in Mozambique (at the Marine Biology Station) and another two weeks in Rome (at the laboratories of Sapienza University).

During the period on the island, field activities were carried out each week in different subject areas related to mangrove ecology (forest ecology, plant physiology, zoology, socio-economics). The data collected in the field were then analyzed and the results obtained were included in a weekly report.

During the weeks in Rome, planned activities include analysis of soils and leaves (including DNA extraction) of different mangrove species at La Sapienza University laboratories.



Proceedings of the Summer School ManGrowth, please open the link below

Link https://www.researchgate.net/publication/380169755_Proceedings_of_the_Summer_School_ManGrowth_2023_Ecology_and_conservation_of_mangroves

2023

OPEN FORIS - COLLECT EARTH

Issued by: FAO

Assessment of the Italian AFOLU activity data training course.

(Course on how to make an assessment of Land Use Change in Italy through the use of Collect Earth software).

2023

PADI - Open Water Diver

Issued by: PADI

Max depth: 18 m

2022

BSAFE

Issued by: FAO

Workplace safety course

2022

Learning for Nature - Ecosystem Restoration

Issued by: UNDP

Massive Open Course

Part 2: Applying Ecosystem Restoration Interventions

2022

Learning for Nature - Ecosystem Restoration

Issued by: UNDP

Massive Open Course

Part 1: Introduction to Ecosystem Restoration

2022

Sustainability Science Course

Issued by: Sapienza University of Rome

Type of credits: ECTS

Number of credits: 6

During the Science of Sustainability course, a general overview was given in different thematic areas of what is sustainable, from agriculture to transport, from production to consumption.

2021

24 ECTS for teaching

Type of credits: ECTS



Number of credits: 24

Mandatory university examinations for teaching that have been taken:

- School Psychology
- Cultural and Social Anthropology
- Teaching Methodologies and Techniques
- Special Pedagogy and Didactics of Inclusion

2018

Advanced Course of Naturalistic Photography

Issued by: FNUR

2016

English - First Certificate, B2 – ESOL Examination

Issued by: British Institute of Rome

2025

THE DIGITAL TRANSFORMATION OF THE BUILT ENVIRONMENT Teaching experiences, research, and field applications

Seminar

INTERSHIPS

2022

Botanical Garden in Rome - Sapienza University of Rome

During the internship period I worked at the experimental plant nursery of the Botanical Garden of Rome for the seeding activities of the projects "Riforestiamo Monte Cairo" and LIFE PRIMED. Write here the description...

2022

Zoologist technician - Sapienza University of Rome

Work experience in trapping techniques, data collection and collection of biological samples of micro and meso mammals (in particular of the genera: Apodemus, Rattus, Arvicola, Vulpes, Martes) for the study of biological corridors in different sites of Italy.

The proposed sampling is part of the international project "Wildlife corridors: do they work and who benefits?" jointly funded by NERC (UK) and NSF (US). The main proponents of the project are Prof. James Bullock (NERC Center for Ecology and Hydrology, CEH, England), Prof. Justin Travis (Aberdeen University, Scotland), Prof. Paul Beier and Dr. Andrew Gregory (researchers at the Center for Large Landscape Conservation, United States). The Italian collaborators and representatives of the project are Dr. Luca Santini and Prof. Paolo Ciucci of the Sapienza University of Rome.

2019

Bird ringing - CISCA

CISCA (Italian Center for the Study and Conservation of the Environment) is an association which deals with scientific communication and research for the protection of ecosystems, plants and animal species and natural habitats. In particular I have had experience in the techniques of ringing and recognition of Bird species.

The Center is currently involved in the 'Small Islands Project' and also conducts research activities in collaboration with the University of Veterinary Medicine of Vienna (Austria), the University of Ferrara (Italy), the Max Planck Institute of Ornithology (Germany) and the Department of Ecological and Biological Sciences of the University of Tuscia in Viterbo (Italy).

2018

Laboratory technician - Sapienza University of Rome

Experience in the study and analysis of microfossils, in particular Foraminifera, in the Micropaleontology Laboratory of Sapienza University of Rome.

● CONFERENCES AND SEMINARS

07/22/2024 – 07/24/2024 Turyaa, Kalutara, Sri Lanka

2nd INTERNATIONAL CONFERENCE ON MANGROVES FOR SUSTAINABILITY 2024

Two research papers were presented during the conference:

"Coastal Vulnerability Model for Informative Management of Coastal Areas in Mozambique"

- Authors: C. Foggia, L. Malatesta, E. Candeago, C. Bourgeois, P. Ramoni, F. Attorre

"Unlocking the Potential of pioneer species: ecophysiological insights for mangrove restoration success in Mozambique"

- Authors: E. Candeago, C. Foggia, J. F. A. César, A. S. Tivane, A. Mugabe, F. Buttarazzi, C. Bourgeois, P. Ramoni Perazzi, F. Attorre

Link <https://ou.ac.lk/cessd/wp-content/uploads/2024/07/ICMS-2024-Proceedings-Book.pdf>

06/17/2024 – 06/18/2024 Nacala, Mozambique

3ª Edição da Conferência da Biodiversidade Marinha

Two research papers were presented during the conference:

"DESBLOQUEAR O POTENCIAL DAS ESPÉCIES PIONEIRAS: CONHECIMENTOS ECOFISIOLÓGICOS PARA O SUCESSO DOS MANGAIS EM MOÇAMBIQUE"

- Authors: J. F. A. César, C. Foggia, E. Candeago, A. S. Tivane, A. Mugabe, F. Buttarazzi, C. Bourgeois, P. Ramoni Perazzi, F. Attorre

"ANÁLISE SOCIOECONÓMICA DA PERCEPÇÃO DA IMPORTÂNCIA DOS MANGAIS NA ILHA DA INHACA"

- Authors: E. Candeago, C. Foggia, D. S. C. Odorico, J. Ramoni Perazzi, G. Orlandoni, P. Ramoni Perazzi, F. Attorre

05/21/2023 – 05/25/2023 Rome

EVS - 31ST EUROPEAN VEGETATION SURVEY 21-25 May 2023

EUROPEAN VEGETATION SURVEY: METHODS AND APPROACHES IN A CHANGING ENVIRONMENT

2019 Università Statale di Milano and Museo Civico di Storia Naturale

SEH 2019 - 20th Congress of Herpetology

"Agricultural Landscape and Herpetofauna: a Comparison between Protected Areas of the Roman Campagna"

Crucitti P., Di Russo E., Foggia C., Marra A., Pellecchia N., Zaggia S.

Società Romana di Scienze Naturali (SRSN)

● COMPUTER SKILLS

QGIS

Software of Geographic Information System

Level: Expert

Google Earth Engine

Cloud-based platform for remote sensing in the JavaScript programming language

Level: Expert

R



Data analysis software in the R programming language

Level: Expert

InVEST - Natural Capital Project

Ecosystem Services Assessment Software

Level: Expert

Open Foris - Collect Earth

Remote sensing software for assessing land use and land cover change through photo interpretation.

Level: Expert

Microsoft Office Package

Excel, Power Point, Word

Level: Expert

● LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
PORTUGUESE	B1	B1	A1	A1	A1

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

● PERSONAL SKILLS

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Work in group | Sense of responsibility | Exceptional organization skills | Ability to adapt to teams of different sizes and work methods | Excellent time management | Ability to deal with a problem through the Scientific Method | Excellent adaptive skills in extreme field data collection situations

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● VOLUNTEERING

2017 – 2019 Rome

LIPU Onlus

Two years of experience in the **LIPU Wildlife Rescue Center** in Rome, where I learned to recognize Bird species and how to approach a wild animals.

2014 – 2016 Rome

CARITAS canteen

2015 Rome

AIMS - Associazione Italiana Sclerosi Multipla



2018 Rome

Animalisti Italiani Onlus

2015 Gaeta

AIL - Associazione Italiana contro le Leucemie - linfomi e mieloma ONLUS

● **DRIVING LICENCE**

Driving Licence: B

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali".