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· **PROFESSIONAL EXPERIENCE:**

National Civilian Service, "MUSEI IN UN CLICK" project

Natural history museum of Ferrara (FE) — May 2023 - May 2024

Main activities: Digital cataloguing of zoological records (shells, insects etc.) and their geographical distribution in a digitalized database. Documents production (audio, video, 3D images) related to the collections. Implementation and publication of virtual contents (texts and digital images) relating to the accessible online heritage (social networks, specific platforms for sharing naturalistic contents, institutional website: storianaturale.comune.fe.it) for researchers and educational and cultural activities. Production of information documents and videos of particularly significant samples (e.g. extinct or endangered species). Virtual manuals realization.

Internship "CAMERAS IN CONSERVATION"

Phillip Island Nature Park (VIC- AUSTRALIA) – Dec 2022 – March 2023

The primary purpose of this role was to collate field data to monitor native wildlife and alien species, to help the management of the Phillip island Nature Park to establish conservation outcomes and future decisions.

Main activities: Setup and management of camera traps, monitoring of nests and weighing of penguin chicks, water analysis (temperature, dissolved oxygen, ammonium, pH, electrical conductivity, reactive phosphate, turbidity and environmental status of wetlands), Shearwater's monitoring, collating field data and monitoring of nests and GIS mapping using "Reach mapping kit".

Trainee Educator

Perth (WA-AUSTRALIA) – Sept. 2022 – Dec 2022

As a trainee educator my role was to be responsible for caring for infants and children in childcare settings in order to provide social, emotional, physical and environmental education.

Internship "ENVIRONMENTAL CONSULTANT"

ALS Italia (BO) – May 2022 – Aug 2022

As Environmental Consultant my role was to support the Environmental office with MUD and ISO 45001.

· **EDUCATION:**

o PhD student in Earth, Life, and Environmental Sciences – Biological Curriculum Alma Mater Studiorum - University of Bologna, BiGeA Department - November 2023 - Present "Effects of climate change on the reproductive biology of angiosperms. Unveiling the consequences of global warming on pollen performance, sterility mechanisms, and crops."

Main activities: plant sowing and maintenance under standard and heat-stress conditions, pollen sampling, pollen germination and viability tests, protein isolation and quantification, SDS-PAGE, Western blotting, immunofluorescence, nanovesicles isolation and visualization.

o Certificate of higher education as "ENVIRONMENTAL CONSULTANT TECHNICIAN" – July 2022

500 theoretical knowledge about Italian's legislation and certifications:

Atmosphere emissions (LD 155/2006; LD 155/2010), VIA, VAS, AUA, AIA.

Waste and water waste legislation and environmental noise.
Environmental management systems (ISO 14001, ISO 9001, ISO 45001).
LCA, EDP and Eco Innovation.

o **Master's degree: SCIENCE AND MANAGEMENT OF NATURE LM-60**
ALMA MATER STUDIORUM – University of Bologna

15th of December 2021
110/110 cum laude

Curricular Internship:

University of Bologna – Gen 2021 – Nov 2021

Thesis: “Local plant distribution effects airborne pollen trends: an aerobiological monitoring study of the city of Bologna”

Pollen bulletin creation of the city of Bologna: airborne pollen's sampling using Hirst-type volumetric sampler, preparation of pollen samples using acetolyzed and hydrated methods (laboratory tasks), pollen's family identification and evaluation of daily concentration using POLLnet procedure.

Using “R statistical analysis program” a PCA analysis was conducted for the variation in the concentration of different pollen types and the linear regression was made for the daily airborne concentration. The graphic analysis was created using Microsoft Excell program.

Tutor: Prof.ssa Iris Aloisi

o **Bachelor's degree: BIOLOGY L-13 (D.M.270/04)**
University of Ferrara

24th of September 2019

Curricular Internship:

University of Ferrara – July 2017 – Sept 2017

Thesis: “Collected field data of vascular plants in Italian moorlands (Trentino Alto – Agide area): photographic frequency method”.

Sampling of vascular plants species in different moorlands and their classifications.

Using “R statistical analysis program” a linear regression was made to deduce the plant biodiversity loss due to rising temperature.

Tutor: Prof. Renato Gerdol

CERTIFICATIONS:

- o Excell certification – Udemy, Jan 2021
- o 24 cfu for teaching – D.M. 616/17 UniPegaso, Jun 2022
- o Environmental Consultant Technician certificate – CFE (MO) , Jul 2022
- o First AID – St. Jhon Hospital (WA), Nov 2022
- o HACCP Food safety – City of Swan (WA) , Oct 2022

COURSES AND SEMINARS:

- o FUNDAMENTAL AND APPLIED RESEARCH - December 2023
- o VIRTUAL OUTCROPS - December 2023
- o STATISTICS - January 2024
- o REMOTE SENSING - February 2024
- o SCIENTIFIC WRITING AND COMMUNICATION - November/December 2024

PROFESSIONAL SKILLS:

- o Vegetational and aerobiological sampling; preparation of palinological samples; botanical and palinological

identifications.

- Management skills of a biological laboratory (pipettes, centrifuges, ultracentrifuges, precision balances, stoves, heating plates, stirrers, vortex, chemical hoods, spectrophotometers, microplate readers, gel and membrane readers, optical microscopes, slides); ability to plan and conduct sampling and vegetational identification.
- Knowledge of the use of the optical microscope ,SEM and fluorescence light microscope

· **INFORMATIC SKILLS:**

- Q-GIS / ARC GIS
- R/R STUDIO
- MICROSOFT OFFICE PACKAGE
- Zotero / Mendeley programs

· **LANGUAGE SKILLS:**

- ITALIAN : mother language
- ENGLISH : B2 level
- SPANISH : A1 level