



Marco Scaramelli

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Sex: Maschile

Date of birth: 30/09/1997

Nazionalità: Italiana

Driving license: B

EDUCATION AND TRAINING

January 2023 – Ongoing

PhD in “Models and Methods for Material and Environmental Sciences”, granted by PNRR

Dipartimento di Scienze Chimiche e Geologiche, Università degli Studi di Modena e Reggio Emilia, Modena, Italy.

- Thesis: “Investigate the fate of microplastics in terrestrial ecosystems and their impact on soil microarthropods biodiversity”
- Tutor: Elisa Bergami

November 2022

Admitted to the profession of biologist SEZ. A

Università degli Studi di Modena e Reggio Emilia, Modena, Italy.

December 2019 - February 2022

Master’s degree in Biologia Sperimentale e Applicata

“Evoluzione, controllo e tutela della biodiversità e dell’ambiente”
(Experimental and Applied Biology)

Università degli studi di Modena e Reggio Emilia, Dipartimento di Scienze della Vita (Via Giuseppe Campi 213/D, 41125, Modena).

- Thesis: “Indici di qualità biologica del suolo per valutare gli effetti di compost innovativi”.
- Advisor: Roberto Guidetti
- Co-Advisor: Dott. Michele Cesari
- Graduation date: 16/02/2022
- Weighted average of marks: 26,47
- Final mark: 105/110

Fundamental knowledge of:

- Conservation and management of biodiversity, biology communication, biological evolution, applied ecology and ecotoxicology, animal biodiversity and phylogeny, applied zoology, applied botany and palynology, applied microbiology;
- Methods for genomic analysis;
- Experimental design and data analysis in Biology;
- Cartography and GIS.

October 2016 - December 2019

Bachelor’s degree in Scienze Biologiche (Biological Sciences and Studies)

Università degli studi di Modena e Reggio Emilia, Dipartimento di Scienze della Vita (Via Giuseppe Campi 213/D, 41125, Modena).

- Thesis: “Il monitoraggio Aerobiologico in Emilia-Romagna e il caso del polline di *Broussonetia papyrifera* (L.) vent.” In collaborazione con l’ARPAE dell’Emilia-Romagna;
- Advisor: Prof.ssa Anna Maria Mercuri
- Co-Advisor: Dott.ssa Paola Torri
- Graduation date: 18/12/2019
- Final mark: 93/110

Fundamental knowledge:

- General chemistry, Organic chemistry and Biochemistry;
- Invertebrates biology, Human anatomy, Animal cytology and histology, Comparative anatomy, Immunology, Pharmacology, Ecology.
- Plant and Animal physiology;
- Microbiology and Parasitology.
- Molecular and Cellular biology, Methodologies of molecular and genomic analysis.
- Fundamentals of R studio.

September 2011 - June 2016

High School's degree – Biotechnologie Sanitarie

Istituto tecnico "F. Selmi" (viale Leonardo Da Vinci, 300, 41126, Modena).

- High school oriented to scientific topics, particularly: Math, Physics, Chemistry, Biology, Anatomy and Environmental sciences.
- Final Mark: 77/100

WORK AND RESEARCH EXPERIENCE

February 2022 – January 2023

Post-Graduated Researcher ("Laureato frequentatore") -

Laboratorio di Zoologia Evoluzionistica

Università di Modena e Reggio Emilia, Dipartimento di Scienze della Vita (Via Giuseppe Campi 213/D, 41125, Modena).

- Pauropoda DNA sequencing.

June 2022 – 30 October 2022

Scholarship for entomological investigation of *Aedes albopictus* -

ARPAE - Agenzia Prevenzione Ambiente Energia Emilia-Romagna (Via Fontanelli, 23, Modena).

- Assessment of the population density of the mosquito species *Aedes albopictus* via eggs morphological identification and counting on samples collected in fields.

October 2021 - February 2022

Internship for Laurea Master's degree - Laboratorio di Zoologia Evoluzionistica (600 hours)

Università di Modena e Reggio Emilia, Dipartimento di Scienze della Vita (Via Giuseppe Campi 213/D, 41125, Modena).

- Analysis of the effects of innovative compost on soil ecosystem using soil biological index (QBS-ar). Pauropoda DNA analysis and sequencing.

June 2021 – October 2021

Internship for Master's degree - Consorzio della Bonifica Burana (200 ore)

Corso Vittorio Emanuele II, 107, 41121, Modena.

- Monitoring the consortial canal system and conducting integrative analysis of both shore and aquatic vegetation, with a particular focus on rare species. This integrated analysis is combined with water quality control.

June 2019 – November 2020

Internship for Bachelor's degree - Laboratorio di Botanica e Palinologia (350 ore)

Università di Modena e Reggio Emilia, Dipartimento di Scienze della Vita (Via Giuseppe Campi 213/D, 41125, Modena).

- Analysis of pollen slides to distinguish between *Broussonetia papyrifera* and *Morus alba*, two plant species whose pollen granules are often confused. Using morphological analysis, I identified key characteristics that allowed for the accurate identification.

PUBLICATIONS

Anna Maria Mercuri, Elena Bellini, Andrea Bonaffini, Elena Cenni, Valentina Ferrari, Federica Frigieri, Cristina Perico, Cristina Ricucci, **Marco Scaramelli**, Joel Vincenzi, Valentina Vitali, Giulio Zanni, Assunta Florenzano – Palybology as a field of Applied Botany: an interdisciplinary approach to interpret the past and address future conservation challenges. Atti della Società dei Naturalisti e Matematici di Modena, p. 97, 2021.

AWARDS

April 2022

BIOMeeting 2022 – Indici di qualità del suolo per valutare gli effetti di compost innovativi

Award for biological presentation promoted by Ordine Nazionale dei Biologi and Società dei Naturalisti e Matematici di Modena.

Università di Modena e Reggio Emilia, Dipartimento di Scienze della Vita (Via Giuseppe Campi 213/D, 41125, Modena).

May 2022

Scholarship in the field of entomological investigation of *Aedes albopictus*

ARPAE - Agenzia Prevenzione Ambiente Energia Emilia-Romagna (Via Fontanelli,23, Modena).

LANGUAGE SKILLS

Italian (Mother tongue)

Other languages:

	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B1	B1	B1	B1
German	A1	A1	A1	A1	A1

COMUNICATION SKILLS

- Good communication skills acquired thanks to academic study and preparation of teamworks.

ORGANISATIONAL SKILLS

- Good abilities to organize the assigned works;
- Determination in the achievement of objectives;
- Good abilities to work and collaborate with others;
- Strong adaptability.

JOB-RELATED SKILLS

- Techniques for making aeropollen slides.
- Sampling techniques and extraction of soil microarthropods;
- Determination of soil biodiversity index (QBS-ar and Acari/collemboli);
- Water analysis;
- Recognize shore and aquatic vegetation;
- Molecular skills: extraction of genomic DNA from animals, PCR of nuclear and mitochondrial genes, Electrophoresis, Gel purification with Wizard Gel and PCR cleaning kit, Sequencing Reaction for Genomic DNA.
- Microscopy skills: use stereomicroscope, Light microscope (LM).

DIGITAL SKILLS

- Windows;
- Microsoft Office;
- Scientific software (MegaX) and statistical investigation software (R studio, IBM SPSS statistics).

PARTECIPATION AT

Seminars and workshops:

- “Biotremology: a new discipline, a new opportunity: the vibrational communication in animals and implications in behavioural manipulation techniques.” Dott. Valerio Mazzoni (27 november 2020);
- “From individuals to groups and back: interactions between individual variations in behaviour and group performances in House Sparrow.” Dott. Beniamino Tuliozi (25 november 2020);
- “Interventi di ripristino ambientale per la tutela di specie rare e minacciate di estinzione: il caso delle praterie alluvionali continentali dell’Europa centrale.” Prof. Fabrizio Buldrini (22 october 2020);
- “Orientare gli ambienti forestali verso la maturità ecologica attraverso interventi selvicolturali.” Simposio Progetto Life Eremita (13 october 2020);
- “Drynet, setting an interdisciplinary, sectorial and international research network to explore dry storage as an alternative strategy for cells/germoplasm biobanking” (12-13 september 2019, Modena).

ADDITIONAL INFORMATION

Altri lavori:

- Study support in Math and Science;
- Football coach;

Hobby e sport

- Football.

Dati personali: 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”.

Firma

