

## Valentina Ferrari

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Nationally Italian  
Date of Birth February 8<sup>th</sup>, 1996



### EDUCATION

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*1<sup>st</sup> November 2022 – Current* **PhD Student in “Models and Methods for Material and Environmental Sciences”**

Department of Chemical and Geological Science, University of Modena and Reggio Emilia (UNIMORE), Italy

Thesis title: “**Assess the impact of marine litter on Mediterranean cnidarians combining laboratory and field surveys**”

Tutor: Dott.ssa Elisa Bergami

*October 2019 – 12<sup>th</sup> April 2022* **Master’s Degree in Experimental and Applied Biology (Class LM-6 – D.M. 270/04)**

Department of Life Sciences, University of Modena and Reggio Emilia (UNIMORE), Italy

Curriculum: “Evolution, control and protection of biodiversity and environment”

Thesis title: “**Protocollo per l’isolamento e identificazione di composti complanine-like nel verme di fuoco *Hermodice carunculata* (Annelida)**”

Supervisor: Prof. Roberto Simonini, Prof.ssa Daniela Prevedelli; Co-supervisor: Dott.ssa Sara Righi

Final mark: 110/110 *cum laude et encomium*

*September 2015 – 17<sup>th</sup> July 2019* **Bachelor’s Degree in Biological Sciences (Class L-13 – D.M. 270/04)**

Department of Life Sciences, University of Modena and Reggio Emilia (UNIMORE), Italy

Thesis title: “**Presenza del composto infiammatorio complanina in diversi tessuti del verme di fuoco *Hermodice carunculata* (Annelida)**”

Supervisor: Prof. Roberto Simonini; Co-supervisor: Dott.ssa Sara Righi

Final mark: 106/110

*September 2010 – July 2015* **School leaving qualification in Scientific studies**  
High school “Liceo Scientifico Wiligelmo”, Modena, Italy  
Final mark: 86/100

## **WORK AND RESEARCH EXPERIENCES**

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- 20<sup>th</sup> May 2022 – 31<sup>st</sup> October 2022* **Post-Graduated Researcher (“Laureato frequentatore”)**  
Department of Life Sciences, University of Modena and Reggio Emilia (UNIMORE), Italy  
Supervisor: Prof. Roberto Simonini  
Analyses of the trophic behavior of marine annelids and isolation of their toxic secretions
- 1<sup>st</sup> October 2021 – 31<sup>st</sup> July 2022* **Tutor for the Master in Experimental and Applied Biology (LM-6)**  
Department of Life Sciences, University of Modena and Reggio Emilia (UNIMORE), Italy  
Reference professor: Prof.ssa Anna Maria Mercuri  
Main activities and responsibilities:
  - Support students in exams preparation and surmounting obstacles during their study path
  - Orientation Day
  - Production of informative scientific material
- 3<sup>rd</sup> September – 11<sup>th</sup> September 2021* **Sampling and monitoring campaign**  
Department of Life Sciences, University of Modena and Reggio Emilia (UNIMORE), Italy  
Supervisor: Prof. Roberto Simonini
  - Collection and maintenance in aquarium of benthic organisms at San Vito Lo Capo (TP)
  - Collaboration with diving centers for monitoring activities of marine annelids within the Citizen Science project “Monitoraggio vermocane”
- November 2020 – April 2022* **Internship for the achievement of the master’s degree in Experimental and Applied Biology (LM-6)**  
Laboratory of Ecology - Department of Life Sciences, University of Modena and Reggio Emilia (UNIMORE), Italy  
Acquired skills:
  - Autonomous use of rotary evaporator and oven-dryer
  - Application of extraction and purification techniques to isolate target compounds (liquid-liquid partition and column chromatography)
  - Experience with liquid chromatography methods (semi-preparative HPLC-DAD, HPLC-ESI/HRMS and HPLC-ELSD)
  - Maintenance in aquaria of marine invertebrates

*November 2018 – July 2019* **Internship for the achievement of the bachelor's degree in Biological Science (L-13)**

Laboratory of Ecology - Department of Life Sciences, University of Modena and Reggio Emilia (UNIMORE), Italy

Acquired skills:

- Analyses of a marine annelid chemical and structural defenses through dissection techniques, extraction of chemical compounds and purification process by column chromatography on silica gel
- Autonomous use of centrifuge, rotary evaporator and freeze-dryer
- Experience with LCMS Ion Trap and HPLC-ESI/HRMS
- Maintenance in aquaria of marine invertebrates

*30<sup>th</sup> June 2014 – 25<sup>th</sup> July 2014* **Summer job**

Tetra Pak Packaging Solutions S.P.A., Modena (Italy)

Main activities and responsibilities:

- Management of separate waste collection system in Modena site
- Information of recycling policy about Tetra Pak packages
- Research activities on environmental event and issue
- Updating Safety Data Sheets (SDS)

## PERSONAL SKILLS AND COMPETENCES

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Native language **Italian**

Other languages **English**

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken production	Spoken interaction	
B2	B2	B2	B2	B2

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

*11<sup>th</sup> June 2022* **International English Language Testing System (IELTS) Academic Certification**

Overall Band Score: 6.5/9 (CEFR Level: B2)

- Digital skills**
- Software: Microsoft office 365 suite (Word, Excel, PowerPoint e Teams) and Google Workspace (Gmail, Drive, Document, Calendar).
  - Web browsers and online database navigation (Chrome, Explorer etc.).
  - Statistical analysis software: PAST.
  - Graphic elaboration Software: ImageJ.
  - Analytical Chemistry Software: 32-Karat 7.0 (Beckman Coulter HPLC).

**Social skills** Good team spirit also achieved thanks to, over the years, the participation in team sports.  
Good attitude to teamwork, also multidisciplinary, achieved during the academic internship periods.  
Good organizational and communication skills.  
Responsible and pro-active.

## CONGRESS AND WORKSHOP

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14<sup>th</sup> June 2022 – 17<sup>th</sup> June 2022 **Attendance at 51° Congress of “Società Italiana di Biologia Marina”**

## PUBLICATIONS

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- Righi S., Forti L., Simonini R., **Ferrari V.**, Prevedelli D. & Mucci A. (2022) Novel Natural Compounds and Their Anatomical Distribution in the Stinging Fireworm *Hermodice carunculata* (Annelida). *Marine Drugs*, 20(9), 585.
- **Ferrari V.**, Simonini R., Prevedelli D. & Righi S. (2022) Presenza di un composto infiammatorio correlato alla complanina nel verme di fuoco *Hermodice carunculata* (Annelida). *Biologia Marina Mediterranea*, In Press.
- Mercuri A. M., Bellini E., Bonaffini A., Cenni E., **Ferrari V.**, Frigieri F., Perico C., Ricucci C., Scaramelli M., Vincenzi J., Vitali V., Zanni G. & Florenzano A. (2021) Palynology 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*, 152, 97-107.

## OTHER SKILLS

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7<sup>th</sup> March 2022 SCUBA certificate (1° Grade AR, FIPSAS/One Star Diver, CMAS)

*Autorizzo il trattamento dei miei dati personali ai sensi del D.Lgs. 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali" nonché all'art. 13 del Regolamento Europeo n. 679/2016 relativo alla protezione delle persone fisiche con riguardo al trattamento dei dati personali.*

Date

15/12/2022

Signature

Valentina Ferrari