

## PERSONAL INFORMATION



Name	<b>MARSILI LETIZIA</b>		
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E-mail	<a href="mailto:letizia.marsili@unisi.it">letizia.marsili@unisi.it</a>		
Nationality	Italian		
Date of Birth	08/07/1965		
Gender	Female		

## WORK EXPERIENCE

- Dates (from - to) 1 March 2016 – present time
- Name and address of the employer University of Siena - Department of Physical, Earth and Environmental Sciences
  - Type of business or sector Public Research Organisation
  - Occupation or position held **Associate professor – Ecology (BIO/07)**
- Main activities and responsibilities Delegate of the Rector for student citizenship  
Teacher of “Nature Conservation” in the bachelor degree in “Natural and Environmental Sciences”, “Ecology” in the bachelor degree in “Biological Sciences”, “Monitoring Techniques of Marine and Terrestrial Environments” in the master degree in “Ecotoxicology and Environmental Sustainability”  
Manager of national and international research projects  
Scientific Manager of the marine sector of the Tuscan Observatory of Biodiversity (OTB) of the Tuscany Region  
Director of the inter-university center for the study of cetaceans (CIRCE).  
Member of the scientific committee of Maremma Regional Park  
Member of the Stranding Cetaceans Worktable of Ministry of Environment  
“Magiamare-Siena” Group leader at the Department of Physical Sciences, Earth, and Environment  
Head of “Residue Analysis” and “Cell Cultures” laboratories in the Department of Physical Sciences, Earth, and Environment
  
- Dates (from - to) 1 July 2008 – 28 February 2016
- Name and address of the employer University of Siena – Department of Physical, Earth and Environmental Sciences
  - Type of business or sector Public Research Organisation
  - Occupation or position held **Full time Graduate Technician**
- Main activities and responsibilities Development and validation of non-lethal sampling tools to study marine mammals; Development and application of biomarkers of exposure and effects for environmental contaminants in marine mammals; Development and validation of fibroblast cell cultures of cetaceans as “in vitro” system to assess the interspecies and gender susceptibility of different cetaceans to different

environmental contaminants; Development of statistical models for the evaluation of toxicological hazard of organochlorines and polycyclic aromatic hydrocarbons in species "at risk"; Combined use of biomarkers and residue analysis to assess the environmental quality of marine, freshwater and terrestrial ecosystems; Use of reptiles to evaluate the impact of on-shore oil extraction areas; Use of crustaceans and fishes to evaluate the impact of off-shore oil extraction areas.

- Collaboration in research projects funded by Italian Ministries and Private Companies  
- Teaching activity at the Faculty of Sciences, course degree in Environmental Sciences

- Dates (from - to) 1 September 2004 – 31 August 2007
- Name and address of the employer University of Siena - Department of Physical, Earth and Environmental Sciences
  - Type of business or sector Public Research Organisation
  - Occupation or position held **Researcher in ecology/ecotoxicology (BIO/07)**
  
- Dates (from - to) 1 July 2003 – 31 August 2004
- Name and address of the employer University of Siena - Department of Physical, Earth and Environmental Sciences
  - Type of business or sector Public Research Organisation
  - Occupation or position held **Graduate Technician**
  
- Dates (from - to) 14 March 2000 – 30 June 2003
- Name and address of the employer University of Siena - Department of Physical, Earth and Environmental Sciences
  - Type of business or sector Public Research Organisation
  - Occupation or position held **Researcher fellow in ecology/ecotoxicology (BIO/07)**
  
- Dates (from - to) 14 January 1999 – 13 March 2000
- Name and address of the employer University of Siena - Department of Physical, Earth and Environmental Sciences
  - Type of business or sector Public Research Organisation
  - Occupation or position held **Graduate Technician**
  
- Dates (from - to) 1 January 1989 – 13 January 1999
- Name and address of the employer University of Siena - Department of Physical, Earth and Environmental Sciences
  - Type of business or sector Public Research Organisation
  - Occupation or position held **Researcher fellow in ecology/ecotoxicology (BIO/07)**

## EDUCATION AND TRAINING

- Dates (from - to) 05/2000-04/2003
- Name and type of organisation ICRAM - Rome
- Principal subjects/occupational skills covered Training on ecotoxicology of marine mammals
- Title of qualification awarded **Research Grant (Assegno di ricerca)**
  
- Dates (from - to) 03/1996-02/1998
- Name and type of organisation University of Siena
- Principal subjects/occupational skills covered Thesis title: "Non-destructive biomarkers to evaluate the health status of different species of marine mammals in the South-West Atlantic area"
- Title of qualification awarded **Post-PhD in Environmental Biology**
  
- Dates (from - to) 1991-1994
- Name and type of organisation University of Siena
- Principal subjects/occupational skills covered Thesis title: "Ecotoxicological and morphometric studies in different species of Mediterranean cetaceans"
- Title of qualification awarded **PhD in Environmental Biology**
  
- Dates (from - to) 1984-1988

- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

University of Siena

Thesis title: “*Thiobacillus ferrooxidans*: biotechnology use in the bioconversion of sulphide minerals in the Southern Tuscany and effects of carbonate gangue”

### Graduation in Biological Sciences

## PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE  
OTHER LANGUAGES

ITALIAN  
ENGLISH- FRENCH- SPANISH

## SCIENTIFIC SKILLS AND COMPETENCES

*Living and working with other people, in multicultural environments, in positions where communication is important and situations where teamwork is essential (for example culture and sports), etc.*

- Research interests (5 Key words): Ecotoxicology, Marine endangered species, Organic contaminants, Cell cultures, Immunotoxicity.
- Author of 107 publication on Scientific Journals with IF, numerous chapters of books, and articles in scientific magazines (for example Le Scienze).
- Lecturer of academic courses or modules since 2001 (i.e. Natural and Environmental Sciences, Ecology, Monitoring Techniques of Marine and Terrestrial Environments, Environmental Impact Assessment (EIA) Techniques, Environmental Risk Assessment Techniques, Applied Ecology).
  - Organization and Communication at national and international congresses (more than 100) including as invited speaker.
  - Supervisor of more than 120 university theses (three-years, masters, and PhDs)
  - Lecturers in advanced training courses (Masters of I and II level).
  - Communication at local (50News Versilia, RTV38, Siena TV, Canale 3 Toscana, Radio Siena) and national (WIP Radio, Il Caffè - Rai 1, Linea Blu - Rai 1, Geo – Rai3, Indovina chi viene a cena – Rai 3) radio and television shows about contamination of Mediterranean Sea, and interviews on several national and local magazines and newspapers.

## RELEVANT ROLES AND COMPETENCES

*Coordination and administration of people, projects and budgets; at work, in voluntary work (for example culture and sports) and at home, etc.*

- Delegate of the Rector for student citizenship (since 2020).
- Scientific Qualification in 2021 to the role of Full Professor.
- Leader of the research group “Marine and Terrestrial Monitoring and Nature Conservation – MAGIAMARE-SIENA” at the University of Siena, with special focus on ecotoxicology of endangered marine species sampled with non-lethal methods (such as subcutaneous biopsy in marine mammals) and evaluation of levels and effects of organic contaminants (i.e. POPs and PAHs), in particular regarding immunotoxicity.
- Leader of the research group on “Cell cultures”.
- Member of the Scientific Committee of the International Whaling Commission (IWC) as Italian delegate (since 2003).
- Member of the Director Board of the Tuscan Archipelago National Park (PNAT) with the Decree of 2 March 2007 of the Ministry of Environment and Protection of Land and Sea (2007-2011).
- Scientific Manager for the marine sector of the Tuscan Observatory of Biodiversity (OTB) of the Tuscan Region (since 2009).
- Vice-director (since 2015) and Director (since 2019) of the inter-university centre for the study of cetaceans (CIRCE)
- Member of the scientific committee of Maremma Regional Park (since 2017).
- Member of the Stranding Cetacean Worktable of Ministry of Environment (since 2011).
- Member of the Committee for Teaching Degree Courses in Environmental and Natural Sciences (Bachelor's Degree in Environmental and Natural Sciences and Master's Degree in Ecotoxicology and Environmental Sustainability), Department of Physical, Earth and Environmental Sciences, University of Siena (since 2016).
- Member of the PhD school Board in Environmental, Geological and Polar Sciences and Technologies, University of Siena (since 2016).
- Member (with delegation from the Rector of the University of Siena) of the Director Board of the Centro Sportivo Universitario (CUS) (since 2020).
- Member of the working group on cetaceans of SIBM – Società Italiana di Biologia Marina (since 2010).
- Member of the working group GRIS Gruppo Ricercatori Italiani sugli Squali, razze e chimere of SIBM – Società Italiana di Biologia Marina (since 2016).
- Member of the editorial board of the “Diversity” (since 2020).

- Coordinator of several research projects as principal investigator or working package leader. The three most important ones in the last 5 years:
  - o Research project (2020-2024) "LIFE DELFI- Dolphin Experience: Lowering Fishing Interactions" Funded by the European Economic Community in the context of LIFE projects - LIFE18 NAT / IT / 000942 identification code (Scientific Responsible University of Siena).
  - o Research project (2019-2022) " Piccola Pesca costiera e d'Elfini: utilizzo di dissuasori acustici per la riduzione dell'interazione e della depredazione" – I-PRESSURE, funded by the Ministry of Agricultural, Food and Forestry Policies under the OP EMFF 2014 - 2020 - Measure 1.40 (Manager)
  - o Research project (2019-2020) " Pescatori e tartarughe marine: facciamo luce in mare" funded by the Tuscany Region under the OP EMFF 2014 - 2020 - Measure 1.40 - Identification code no. 3RBC18 (Manager).

#### PUBLICATION INDEXES (SCOPUS)

- NUMBER OF PUBLICATIONS: 105
- TOTAL NUMBER OF CITATIONS: 3372
- H-INDEX: **32**

10 MOST RELEVANT  
PUBLICATIONS  
In the last 10 years.

1. CONSALES G. & **MARSILI L.** (2021). Assessment of the conservation status of Chondrichthyans: underestimation of the pollution threat, *The European Zoological Journal*, 88:1, 165-180, DOI: 10.1080/24750263.2020.1858981
2. LENZI M., FRANCHI E., LEPORATTI-PERSIANO M., D'AGOSTINO A., GENNARO P., **MARSILI L.** (2021). Assessment of the causes of Hg bioaccumulation in the fish of a Mediterranean lagoon subject to environmental management interventions. *Mar Pollut Bull.*,162:111907. doi: 10.1016/j.marpolbul.2020.111907. Epub 2020 Dec 15. PMID: 33338927.
3. CAGNAZZI D., HARRISON P.L., PARRA G.J., REICHEL-T-BRUSHETT A., **MARSILI L.** (2020). Geographic and temporal variation in persistent pollutants in Australian humpback and snubfin dolphins. *Ecological Indicators*, 111, 105990.
4. **MARSILI L.**, DI GUARDO G., MAZZARIOL S., CASINI S. (2019). Insights into cetacean immunology: Do ecological and biological factors make the difference? *FRONTIERS IN IMMUNOLOGY*, vol. 10, pp.1219. DOI: 10.3389/fimmu.2019.01219
5. CAGNAZZI D., CONSALES G., BROADHURST M.K., **MARSILI L.** (2019). Bioaccumulation of organochlorine compounds in large, threatened elasmobranchs off northern New South Wales, Australia. *Mar Pollut Bull.*,139:263-269. doi: 10.1016/j.marpolbul.2018.12.043. Epub 2019 Jan 9. PMID: 30686427.
6. **MARSILI L.**, JIMÉNEZ B., BORRELL A. (2018). Persistent Organic Pollutants in Cetaceans Living in a Hotspot Area: The Mediterranean Sea, Chapter 7 - Editor(s): Maria Cristina Fossi, Cristina Panti, *Marine Mammal Ecotoxicology*, Academic Press, Pages 185-212, ISBN 9780128121443, <https://doi.org/10.1016/B978-0-12-812144-3.00007-3>.
7. GONZALVO J., LAURIANO G., HAMMOND P.S., VIAUD-MARTINEZ K.A., FOSSI M.C., NATOLI A., **MARSILI L.** (2016) The Gulf of Ambracia's Common Bottlenose Dolphins, *Tursiops truncatus*: A Highly Dense and yet Threatened Population. *Adv Mar Biol.*, 75:259-296. doi: 10.1016/bs.amb.2016.07.002. Epub 2016 Aug 25. PMID: 27770987.
8. **MARSILI L.**, COPPOLA D., GIANNETTI M., CASINI S., FOSSI M.C., et al. (2015). Skin Biopsies as a Sensitive Non-Lethal Technique for the Ecotoxicological Studies of Great White Shark (*Carcharodon carcharias*) Sampled in South Africa. *Expert Opin Environ Biol* 5:1 doi:10.4172/2325-9655.1000126
9. FOSSI M.C., CASINI S., MALTESE S., PANTI C., SPINSANTI G., **MARSILI L.** (2014). An "ex vivo" Model to Evaluate Toxicological Responses to Mixtures of Contaminants in Cetaceans: Integumentum Biopsy Slices. *ENVIRONMENTAL TOXICOLOGY*, vol. 29 (10), pp. 1107–1121. DOI: 10.1002/tox.21841
10. CAGNAZZI D., FOSSI M.C., PARRA G.J., HARRISON P.L., MALTESE S., COPPOLA D., SOCCODATO A., BENT M., **MARSILI L.** (2013). Anthropogenic contaminants in Indo-Pacific humpback and Australian snubfin dolphins from the central and southern Great Barrier Reef. *Environ Pollut.*,182:490-4. doi: 10.1016/j.envpol.2013.08.008. Epub 2013 Sep 6. PMID: 24016630.

**According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV**

Siena, 26.04.2022

Signature

