

CURRICULUM VITAE

Personal Information

Full Name	Paolo Pastorino 
E-mail	paolo.pastorino@izsplv.it
Certified E-mail (PEC)	paolo.pastorino@pec.it
Gender	Male
Nationality	Italian
ORCID ID	https://orcid.org/0000-0002-0585-1168
Scopus Author ID	57189215263
Web of Science ResearcherID	T-5288-2019
ResearchGate Profile	https://www.researchgate.net/profile/Paolo_Pastorino

Academic and Educational Qualifications

- **Date:** From Academic Year 2023/2024
- **Name and type of institution:** University of Perugia, Department of Chemistry, Biology and Biotechnology
- **Main subjects / professional skills covered:** Appointed as *Subject Expert* in the following courses within the academic sector “Ecology”: ECOLOGY (bachelor’s degree in Biological Sciences); APPLIED ECOTOXICOLOGY (master’s degree in biology)
- **Date:** June 3, 2022 (2021 Round/Second Session)
- **Name and type of institution:** Ministry of University and Research (Italy)
- **Main subjects / professional skills covered:** National Scientific Qualification for Associate Professor in the disciplinary field 05/C1 – ECOLOGY
- **Qualification awarded:** *National Scientific Qualification*
- **Date:** May 24, 2022
- **Name and type of institution:** Registered in the Italian National Order of Biologists – Section A. Registration number: AA_093276
- **Date:** November 2021
- **Name and type of institution:** University of Padua – License to practice as a Biologist (Second session 2021)
- **Date:** April 2020 – May 10, 2023
- **Name and type of institution:** Postgraduate School in Statistics and Biometry – Department of Cardio-Thoraco-Vascular Sciences and Public Health – University of Padua
- **Main subjects / professional skills covered:**

Supervisor: Prof. Dario Gregori

Final thesis: *Statistical approach to ecological data and case study analysis to assess the effect of microplastics on the decomposition of plant organic matter in aquatic environments*

• **Qualification awarded:** Postgraduate Diploma (“Specializzazione”) in Statistics and Biometry, final grade: 110/110 cum laude

• **Date:** November 2016 – March 27, 2020

• **Name and type of institution:** PhD in Environmental Sciences – Department of Life Sciences – University of Trieste

• **Main subjects / professional skills covered:**

Scientific Sector: Ecology/Ecotoxicology

Supervisor: Prof. Piero Giulio Giulianini

Co-supervisors: Prof. Elisabetta Pizzul, Dr. Marino Prearo

Thesis title: *Alpine lakes, indicators of global change: ecological characterization and environmental pressures in two lakes from the Italian Alps*

• **Qualification awarded:** PhD in Environmental Sciences

• **Date:** October 2012 – April 16, 2015

• **Name and type of institution:** Master’s degree in Environmental Biology (LM-06) – University of Turin, School of Natural Sciences, Department of Life Sciences and Systems Biology

• **Main subjects / professional skills covered:**

The program focused on competencies in multiple biology fields (from community-level to molecular biology) interacting with natural and anthropogenic environments. The animal biodiversity curriculum provided the skills and tools for studying, managing, and conserving terrestrial and aquatic biodiversity in its ecological, genetic, behavioral, and taxonomic components.

Thesis in “Ecological Indicators and Environmental Impact Assessment”: *Recovery of the Italian bleak population (*Alburnus arborella* Bonaparte, 1841) in Lago Grande di Avigliana: population dynamics and design of spawning beds to support reproduction.*

Supervisor: Prof. Francesca Bona; Co-supervisor: Prof. Gilberto Forneris

• **Qualification awarded:** Master’s Degree in Environmental Biology, final grade: 110/110 cum laude

• **Date:** September 2009 – December 11, 2012

• **Name and type of institution:** Bachelor’s Degree in Aquaculture and Fish Pathology (L-38), Alma Mater Studiorum – University of Bologna, Faculty of Veterinary Medicine – Cesenatico (FC) campus

• **Main subjects / professional skills covered:**

The degree prepared professionals for all aspects of aquatic animal production, including technical, hygienic, and economic management of aquaculture enterprises, as well as services, transformation, and marketing of fishery products.

Thesis in freshwater fish management: *Freshwater Fish Maps: monitoring status of freshwater ichthyofauna across Italy*

Supervisor: Prof. Oliviero Mordenti; Co-supervisor: Prof. Gilberto Forneris

• **Qualification awarded:** Bachelor’s Degree in Aquaculture and Fish Pathology, final grade: 110/110 cum laude

• **Date:** September 2004 – July 2009

• **Name and type of institution:** I.T.A.S. Santorre di Santarosa – Turin

• **Main subjects / professional skills covered:**

Acquired competencies in the following scientific subjects: general chemistry, organic

chemistry, analytical chemistry, biochemistry, genetics, molecular biology, microbiology, morphology and physiology, and ecology

- **Qualification awarded:** High School Diploma in Biological Sciences, final grade: 100/100
- **National classification level (if applicable):** Upper Secondary School Diploma

Internships

- **Date:** March 19–21, 2024
 - **Institution:** Laboratory of Ecophysiology of Aquatic Animals, Department of Chemical, Biological, Pharmaceutical and Environmental Sciences, University of Messina
 - **Supervisor:** Prof. Caterina Faggio
 - **Main topics / professional skills covered:** Development and application of stress indices for contamination by classical and emerging environmental pollutants using integrated cellular approaches in aquatic invertebrates
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- **Date:** April 16–20, 2018
 - **Institution:** Ecotoxicology Laboratory, Department of Chemistry, Biology and Biotechnology, University of Perugia
 - **Supervisor:** Prof. Antonia Concetta Elia
 - **Main topics / professional skills covered:** Development and application of stress indices for environmental contamination by classical and emerging pollutants using integrated cellular, biochemical, biological, and environmental approaches for use in biomonitoring programs, especially in freshwater and high-altitude lake ecosystems
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- **Date:** November – December 2016
 - **Institution:** Laboratory of Aquatic Ecology, Ichthyology and Zoobenthos, Department of Life Sciences, University of Trieste
 - **Supervisor:** Prof. Elisabetta Pizzul
 - **Main topics / professional skills covered:** Application of biotic indices in accordance with the Water Framework Directive 2000/60/EC; Study of freshwater fish species, including their ecology and community dynamics
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- **Date:** January – October 2014
 - **Institution:** Internship and thesis at the Department of Veterinary Sciences, University of Turin
 - **Supervisor:** Prof. Gilberto Forneris
 - **Main topics / professional skills covered:**
 - Inland water ecology
 - Visits to restocking aquaculture facilities
 - Artificial reproduction of brown trout, marble trout, and Arctic char
 - Fish and macroinvertebrate community sampling and analysis
 - Restoration of bleak (*Alburnus arborella*) populations in the Avigliana Lakes
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- **Date:** June – July 2012
 - **Institution:** Internship (150 hours) at the Department of Veterinary Sciences – University of Turin – Centre for the Protection of Aquatic Biodiversity
 - **Academic Tutor:** Prof. Oliviero Mordenti
 - **Main topics / professional skills covered:** Molecular techniques (DNA extraction, PCR, electrophoresis, data processing) for the study and conservation of native salmonid populations in Northern Italy

Training Courses

All courses awarded a certificate of attendance.

• **ECM e-learning courses (FAD):**

- OPBA: Training for Duties, Modules 25, 50, 51 – 1st Edition
- Use of Fish in Research – Part 2: *Seabass, Salmonids and Other Fish (Sea Bream, Sturgeon, etc.)*, Modules 3.1, 4, 5, 7 – 1st Edition
- Use of Fish in Research – Part 1: *Zebrafish, Poeciliidae, Other Fish (Medaka, Nothobranchius, etc.)*, Modules 3.1, 4, 5, 7 – 1st Edition
- Zebrafish as a Model Organism: In Vitro and In Vivo Experimental Approaches in Scientific Research – Single Edition
- Ethics and Project Design, Modules 9, 10, 11 – DM August 5, 2021 – Single Edition
- National Legislation and Ethics – Level 1, Modules 1 and 2 – 1st Edition

• **November 22, 2024:** Safety Supervisor Training Course (8 hours)

• **February 18, 2024:** *R Syntax and Application* Workshop, San Antonio, Texas, USA

• **April 27, 2023:** UNI CEI EN ISO/IEC 17025:2018 – *General requirements for the competence of testing and calibration laboratories* – 1st Edition

• **December 19, 2022:** Specific Training on the Use of Category III PPE – 8th Edition, IZS PLV, Turin

• **May 4–6, 2022:** *Basic Chemometrics* Course – 1st Edition

• **February 21–22, 2022:** First Aid Training for Staff

• **February 11–18, 2022:** Fire Safety Training for Staff

• **October 6–8, 2021:** *Basic Nautical and Safety Training for Research Activities in Lake and River Environments* (18 hours), Italian Naval League, Turin, Italy

• **June 17, 2021:** *Electrofishing Techniques Training*, Fish Heritage Protection Agency – Friuli Venezia Giulia Region, Udine, Italy

• **June 24–28, 2019:** *Aquaculture Summer School*, AGER 4F Project, Alghero (SS), Italy

• **December 4, 2017:** Worker Safety Update Course (Art. 37, Legislative Decree 81/08 and Ministerial Decree 10/03/1998) – 6 hours

• **October 27, 2015:** General Safety and Health Training Course for High-Risk Workers (12 hours), based on Legislative Decree 81/08 – ATECO 2007 Sector 7

• **October 26, 2015:** General Safety and Health Training (4 hours) – Legislative Decree 81/08 – State-Regions Agreement 21/12/2011

• **September 7–10, 2015:**

5th Theoretical-Practical Course in Ichthyology – Ampezzo Carnico (UD), Italy, organized by the Italian Association of Freshwater Ichthyologists (A.I.I.A.D) and the University of Trieste

• Topics: River hydrology and morphology, river type classification, Italian ichthyofaunal biogeographic regions, stream ecology, fish-environment relationships, fish anatomy and

physiology, fish conservation genetics, Natura 2000 network and LIFE projects, PIT tagging, electrofishing sampling, ichthyological indices (ISECI, NISECI)

• **October 13–17, 2014:**

Technical-Practical Course (40 hours): *Introduction to the Analysis of Fish Communities in River Ecosystems*

University of Naples Federico II (Department of Biology), CISBA, and ISPRA – Naples

• Topics: River ecology and morphology, freshwater fish communities, sampling methods and identification, use of fish as indicators (ISECI), fieldwork in Salerno Province

Conference and Seminar Participation

All events awarded a certificate of attendance.

• **May 11–15, 2025** – SETAC Europe – 35th Annual Meeting, Society of Environmental Toxicology and Chemistry, Vienna, Austria

• **March 6–10, 2025** – Aquaculture 2025, New Orleans, USA

• **December 3, 2024** – Annual IPAM Conference: *New Approach Methodologies (NAMs) in Ecotoxicology*, Naples, Italy

• **November 26–28, 2024** – IX National Workshop on Ecotoxicological Methodologies, ISPRA, Livorno

• **October 17–19, 2024** – XIX National Congress of the Italian Association of Freshwater Ichthyologists (A.I.I.A.D.), Parma

• **September 23–26, 2024** – XXXI Congress of the Italian Society of Ecology (SIte), Siena

• **February 18–21, 2024** – Aquaculture America 2024, San Antonio, Texas, USA

• **February 14–15, 2024** – AquaFarm 2024, Pordenone, Italy

• **May 13, 2024** – FISAT II – FAO ICLARM Fish Stock Assessment Tool

• **November 22–23, 2023** – III Applied Ecotoxicology Day, Livorno, Italy

• **September 6–8, 2023** – XXXII Congress of the Italian Society of Ecology (SIte), Catania

• **July 4, 2023** – “Research Stories” Scientific Outreach Event – IZSPLV, Turin

• **June 11–15, 2023** – 18th International Conference on Chemistry and the Environment, Venice

• **December 28, 2022** – “Library and Bibliometrics for Research” – IZSPLV, Online

• **December 14, 2022** – “Italian Health Research in a European Context” – CRC Foundation, Cuneo

• **September 27–30, 2022** – Aquaculture Europe 2022, Rimini

• **September 28–30, 2022** – “Ecotoxicology Today: from Past Experiences to Future Applications”, Lido di Camaiore

• **September 13–15, 2022** – XXXI Congress of the Italian Society of Ecology (SIte), Siena

• **April 29, 2022** – “Aquaculture and Fish Pathology in the Third Millennium”, Online

• **February 28 – March 4, 2022** – Aquaculture 2022, San Diego, California, USA

• **December 6, 2021** – Webinar: *Emerging Contaminants in the Environment: Behaviour and Screening Methodologies*

• **November 4–6, 2021** – HydroMediT 2021 – 4th International Congress on Applied Ichthyology, Oceanography & Aquatic Environment

• **September 21–23, 2021** – 20th International Conference on Diseases of Fish and Shellfish (EAFP), Virtual

• **June 18, 2021** – SIPI Technical-Scientific Meeting: *Health Issues Related to the Introduction of Aquatic Alien Species*

• **November 27, 2020** – National Conference: *Monitoring of Strandings and Plastic Impact on Cetaceans and the Marine Environment*

• **September 25, 2020** – SIPI Webinar: *Microplastics in Aquatic Organisms: State of the Art and Future Prospects*

- **February 9–12, 2020** – Aquaculture America 2020, Honolulu, USA
- **September 18–20, 2019** – A.I.I.A.D. Congress: *Mediterranean Salmonid Biodiversity: from Systematics to Conservation*
- **September 2–6, 2019** – XVI European Congress of Ichthyology, Lausanne, Switzerland
- **April 30, 2019** – Analytical Methods for the Detection and Characterization of Micro- and Nanoplastics, CNR Verbania Pallanza
- **March 20–21, 2019** – PIT Tag Methodologies and Monitoring System, CNR Verbania Pallanza
- **November 7–10, 2018** – XVII National Congress of the Italian Association of Freshwater Ichthyologists, Rome
- **October 13, 2018** – ECM Satellite Workshop: *Blue Economy – A New Perspective for Aquaculture*, Turin
- **June 13–15, 2018** – XII National Biodiversity Congress: *Biodiversity, Environment, Health*, Teramo
- **October 26–27, 2017** – SIL Austria 2017: *Limnological Research in and around the European Alps*, University of Innsbruck
- **October 11–13, 2017** – IV National Congress of Wildlife Ecopathology, Domodossola
- **September 10–16, 2017** – 8th International Symposium on Sturgeon (ISS8), BOKU University, Vienna, Austria
- **September 4–8, 2017** – 18th International Conference on Diseases of Fish and Shellfish (EAFP), Belfast, UK
- **July 6–8, 2017** – International Meeting on the Conservation of High Mountain Lakes, Ceresole Reale, Italy
- **May 26, 2017** – Workshop: *Conservation of Marble Trout – Results of Active Conservation Programs*, Ceresole Reale
- **March 31, 2017** – IV Update Course on Aquatic Ecosystem Issues, Turin
- **November 29 – December 1, 2016** – Seminar: *Present and Future of Aquatic Biology – 30 Years of CISBA*, Cervia
- **November 21–22, 2016** – 2nd Croatian Symposium on Invasive Species with International Participation, Zagreb
- **November 10–12, 2016** – 2nd International Congress on Applied Ichthyology & Aquatic Environment, Messolonghi, Greece
- **November 11, 2016** – Technical Seminar: *Research, Innovation and Production on Aquaculture and Fisheries*, University of Thessaly
- **October 21–23, 2016** – XVI A.I.I.A.D. National Congress: *Fish Fauna and Global Change*, Popoli, Italy
- **October 19, 2016** – National Conference: *Towards a National Plan for Biodiversity Monitoring*, Rome
- **July 11–14, 2016** – II FINS Conference: *Freshwater Invasive Species – Networking for Strategy*, Zagreb
- **March 1, 2016** – Seminar by CNR-ISE: *Assessing Biodiversity in Central Emilia Ponds*, Verbania
- **February 12, 2016** – A.I.I.A.D. Workshop: *Fish Management in Northern Italy – Local and European Perspectives*, Vicenza
- **January 22, 2016** – LIFEWOLFALPS Conference: *Wolf Populations in the Alps – Status and Management*, Cuneo
- **November 6, 2015** – IV National Conference of S.I.R.A.M. (Italian Society for Research Applied to Mollusk Culture), Chioggia
- **October 9, 2015** – SIPI Workshop: *Adriatic Sea – Old Challenges and New Horizons for Marine Aquaculture*, Chioggia
- **September 29, 2015** – First Census of Fish Fauna in Subalpine Lakes, Lombardy Region, Milan

- **July 17, 2015** – IZSPLV Seminar: *Wildlife Ecopathology – The Case of the Racconigi Stork Center*, Turin
- **November 14–15, 2014** – XV A.I.I.A.D. National Congress: *Fish Fauna and Global Change*, Gorizia
- **May 19, 2011** – SIPI Technical Meeting: *New Frontiers in Mariculture – Diversification Strategies*, Ostuni
- **April 1, 2011** – SivasZoo Annual Conference: *Health Management of Aquatic Organisms in Controlled Environments*, Bologna
- **October 22–24, 2009** – AcquaculturaMed 2009 – Mediterranean Expo-Conference on Sustainable Aquaculture & Seafood, Verona

Work Experience

Dec 2023 – Present

Manager Biologist

Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta (IZS PLV), Turin, Italy

Department of Specialized Diagnostics – Unit of Fish Diseases, BIOAQUA Regional Reference Centre for Aquatic Biodiversity

- Coordination of research activities at the BIOAQUA Centre
- Principal Investigator of the PNRR project *RESILTROUT*

Jan 2024 – Present

Associate Editor

Elsevier BV, Amsterdam, Netherlands

- Editorial handling of approx. 300 manuscripts/year
- Associate Editor for the journals *Chemosphere* and *Aquatic Toxicology*

Sep 2021 – Present

Adjunct Professor

University of Turin – Department of Veterinary Sciences

- Co-lecturer of the course “Vertebrate Biology and Ecology” (8 ECTS), Bachelor’s degree in animal production and wildlife Management (A.Y. 2021/22, 2022/23, 2023/24)

Dec 2022

Scientific Consultant (short-term)

CoNISMa – National Interuniversity Consortium for Marine Sciences, Rome

- Advisory role for the “Terna Survey Tyrrhenian Link” project

Apr 2020 – Nov 2023

Postdoctoral Researcher (DS category, level 6)

IZS PLV – Department of Research and Reference Centre Coordination

- Ecotoxicology
- Sampling of fish and benthic macroinvertebrates
- Ecology of high-mountain lakes and freshwater/marine biodiversity
- Data management, statistics, scientific writing
- Research project coordination

Jan – Mar 2020

Senior Research Fellow

IZS PLV – Fish Pathology Lab

Project: *Fish in the City – Ecological and health status of fish communities in the metropolitan stretch of the Po River*

- Field sampling, ecological assessments, fish pathology diagnostics
- Database development, statistical analysis, manuscript preparation

Aug 2019 – Jan 2020

Senior Research Fellow

IZS PLV – Fish Pathology Lab

Project: *MICROSALM – Microbiota evaluation in wild and farmed Arctic char*

- Molecular, microbiological, and virological analysis; data analysis and dissemination

Feb – Aug 2019

Senior Research Fellow

IZS PLV – Fish Pathology Lab

Project: *ALPLA – Alpine Lakes as Indicators of Global Change*

- High-mountain Lake ecology, fish sampling, health diagnostics, data analysis

May 27–31, 2019

Guest Lecturer (Hydrobiology and Ichthyology, 12 hrs)

ARSIAL – Regional Wildlife Observatory, Rome

Jan 2019

Research Fellow

IZS PLV – Fish Pathology Lab

Project: *Fine Feed for Fish – 4F*

- Fish sampling, diagnostics, data analysis and manuscript preparation

Nov 24, 2018

Guest Lecturer (Hydrobiology and Ichthyology, 4 hrs)

ARSIAL – Regional Wildlife Observatory, Rome

Jun – Dec 2018

Senior Research Fellow (II level)

IZS PLV – Fish Pathology Lab

Project: *ALPLA – Alpine Lakes as Indicators of Global Change*

- High-mountain lake ecology, diagnostic testing on fish, data management

Jan – May 2018

Research Fellow (I level)

IZS PLV – Fish Pathology Lab

Project: *Fine Feed for Fish – 4F*

- Fish sampling, diagnostics, statistical analysis, scientific dissemination

Dec 1, 2017

Guest Lecturer (Ichthyology and Freshwater Ecology, 4 hrs)

Local Health Authority – Aosta Valley (USL)

Jan – Dec 2017

Research Fellow

IZS PLV – Fish Pathology Lab

Project: *Use of Garra rufa in wellness centres – Public health and welfare perspectives*

Sep – Dec 2016

Research Fellow

IZS PLV – Fish Pathology Lab

Project: *The Oyster Affair – Balancing food safety and gastronomic appeal*

- Diagnostics on bivalve mollusks, data processing and manuscript drafting.

Jul – Aug 2016

Research Fellow

IZS PLV – Fish Pathology Lab

Project: *Spatial risk assessment of exotic fish disease incursion in Europe*

Jan – Jun 2016

Research Fellow

IZS PLV – Fish Pathology Lab

Continuation of: *The Oyster Affair*

Sep – Dec 2015

Research Fellow

IZS PLV – Fish Pathology Lab

Continuation of: *The Oyster Affair*

Jun – Sep 2015

Research Fellow (50% time)

IZS PLV – Fish Pathology Lab

Project: *Anisakis Risk – Diagnostics and epidemiological analysis in fish and allergic cases in humans*

Personal Skills and Competences

Mother tongue: Italian

Other languages:

English – Level C1

- **Reading:** Excellent
- **Writing:** Excellent
- **Speaking:** Excellent

Technical and Professional Skills

Ecology and Ecotoxicology

My research activities focus on ecological and ecotoxicological issues related to aquatic environments. I conduct ecological analyses in both lentic and lotic systems, evaluating biodiversity responses to environmental and anthropogenic stressors, particularly under global change scenarios. Special attention is given to both direct (e.g., fish introductions) and indirect (e.g., long-range transport of contaminants) anthropogenic impacts in high-mountain lakes. In the ecotoxicological field, I assess the effects of classical and emerging contaminants and multiple stressors on aquatic organisms. The main research line is related to the investigation of micro(nano)plastics and REEs in aquatic environments, focusing on their trophic transfer and related ecotoxicological and ecological effects.

Ichthyology, Hydrobiology, and Freshwater Ecology

- Execution of fish sampling and use of related equipment (electrofishing unit, multi-mesh gill nets)
- Stomach content analysis and scale reading for age determination
- Systematics and taxonomy of freshwater fish species from Italy and Europe
- Application of ichthyological indices (Forneris et al., 2011), ISECI (Zerunian et al., 2009), and NISECI (ISPRA, 2017)
- Data analysis from field sampling (length-weight and length-age relationships; growth curves)
- Collection of geomorphological parameters in river and lake environments
- Physico-chemical water analyses using multiparameter probes and benchtop spectrophotometers
- Sampling of macroinvertebrates and application of IBE and/or STAR_ICMi indices

Technical Skills

- Excellent command of Windows and MacOS operating systems
- Proficient use of Microsoft Office and Open Office (Word, Excel, PowerPoint)
- Statistical data analysis using GraphPad, XLSTAT, and R
- Internet navigation and email management
- Competence with equipment in biological and biochemical laboratories

Tutoring and Student Supervision

Master's Theses and Internships

- A.Y. 2023/2024: Co-supervisor, MSc in Biology, University of Perugia
Thesis title: *Ecological oxidative stress as a valuable tool to uncover the microplastics disturbance on freshwater ecosystems* – Student: Erika Scimmi – Supervisor: Prof. Antonia Concetta Elia
- A.Y. 2024/2025: Co-supervisor, MSc in Health Biology and Applied Technologies for Nutrition, University of Messina

- Thesis title:** *Physiological and cellular alterations in *Mytilus alloprovincialis* exposed to quaternium-15* – Student: Annalisa Cotugno – Supervisor: Prof. Caterina Faggio
- A.Y. 2024/2025: Supervisor, 2nd Level Master in Biostatistics and Epidemiological Methodology, University of Pavia
Thesis title: *Animal experimentation and biostatistical analysis: a fish case study* – Student: Giuseppe Esposito
 - A.Y. 2023/2024: Internship tutor (600 hrs), IZS PLV – ecological data analysis – Master student: Giuseppe Esposito
 - Co-supervisor, MSc in Global Change Ecology, University of Trieste
Thesis title: *Alpine Lakes as Indicators of Global Change: Two Examples from the Italian Alps* – Student: Francesco Polazzo – Supervisor: Prof. Elisabetta Pizzul
 - Co-supervisor, Interuniversity master's in environmental and wildlife Management and Conservation, University of Parma
Thesis title: *Oxidative stress ecology in a population of Balkan barbel (*Barbus balcanicus*) in Friuli-Venezia Giulia* – Student: Serena Gasparro – Supervisor: Prof. Francesco Nonnis Marzano
 - Co-supervisor, MSc in Global Change Ecology, University of Trieste
Thesis title: *Investigation on hepatic steatosis in *Cottus gobio* (freshwater sculpin)* – Student: Manuel Kušće – Supervisor: Prof. Elisabetta Pizzul
 - Co-supervisor, MSc in Global Change Ecology, University of Trieste
Thesis title: *Presence of persistent and emerging pollutants in *Silurus glanis* from the Vipacco River (NE Italy)* – Student: Marco Cornonica – Supervisor: Prof. Elisabetta Pizzul
 - Co-supervisor, MSc in Global Change Ecology, University of Trieste
Thesis title: *Analysis of macrozoobenthic communities in an alpine lake (Lago Soprano della Balma – NW Italy)* – Student: Sabrina Basile – Supervisor: Prof. Elisabetta Pizzul
 - Co-supervisor, MSc in Biology, University of Eastern Piedmont
Thesis title: *Determination of trace and rare earth elements in biotic and abiotic matrices from the metropolitan section of the Po River* – Student: Serena Gasparro – Supervisor: Prof. Francesco Dondero

PhD Supervision

- A.Y. 2023/2024: Co-supervisor – PhD candidate: Sara Futia – PhD in Biological and Natural Sciences (Cycle XXXIX), University of Perugia – Research topic: *Microplastics and glitter: characterization, environmental impact, and sustainability solutions*
- A.Y. 2024/2025: Co-supervisor – PhD candidate: Camilla Mossotto – PhD in Biological and Natural Sciences (Cycle XL), University of Perugia – Research topic: *REEs effects in aquatic organisms*
- A.Y. 2024/2025: Co-supervisor – PhD candidate: Alessandra Maganza – PhD in Biological and Natural Sciences (Cycle XL), University of Perugia – Research topic: *REEs effects in aquatic organisms*

Conference Presentations and Scientific Contributions (2014–2025)

- Presenter, XVA.I.I.A.D. National Congress, Gorizia, Italy (Nov 15, 2014)
Talk: *Fish Faunal Charts: status of national ichthyofaunal monitoring*
- Invited Speaker, IV Workshop on Aquatic Environment Issues, Turin, Italy (Mar 31, 2017)
Talk: *Morphological identification of freshwater fish species*

- Presenter, *XXI SIPI National Congress*, Lecce, Italy (Oct 6, 2017)
Talk: *Benthic macroinvertebrates and trace element contamination: a matrix for freshwater quality assessment?*
- Presenter, *IV National Congress of Wildlife Ecopathology*, Domodossola, Italy (Oct 12, 2017)
Talk: *Alien fish species in Italy: overview on status and health risks*
- Presenter, *SIL Austria 2017*, University of Innsbruck, Austria (Oct 26–27, 2017)
Talk: *Application of the Shorezone Functionality Index (SFI) for bleak (*Alburnus arborella*) spawning habitat assessment*
- Invited Speaker, *ECM Workshop on Freshwater Aquaculture Health Management*, Morgex, Italy (Dec 1, 2017)
Talk: *Identification and ecology of freshwater fish species*
- Scientific Secretariat Member & Presenter, *V Update Course on Aquaculture*, IZS PLV, Turin (Apr 6, 2018)
Talk: *Alpine lakes: natural open-air laboratories*
- Presenter, *XII National Biodiversity Congress*, Teramo, Italy (Jun 14, 2018)
Talk: *Alpine lakes as indicators of global change: two examples from the Italian Alps*
- Scientific Committee Member, *XXIV SIPI National Congress & Blue Economy Workshop*, Turin (Oct 11–13, 2018)
Talk: *Blue Economy and environmental sustainability in aquaculture*
- Presenter, *XVII A.I.I.A.D. National Congress*, Rome, Italy (Nov 8, 2018)
Talk: *Wels catfish as bioindicator of aquatic contamination*
- Scientific Committee Member & Section Chair, *3rd International Congress on Applied Ichthyology & Aquatic Environment*, Volos, Greece (Nov 8–11, 2018)
- Invited Speaker, *International Aquaculture School "Integrated and Sustainable Aquaculture: Last Challenges"*, University of Turin (Dec 12, 2018)
Talk: *Antibiotic resistance in aquaculture and aquatic ecosystems*
- Presenter, *AIAD Congress on Mediterranean Salmonid Biodiversity*, Cagliari, Italy (Sep 19, 2019)
Talk: *Biological and sanitary condition of brook trout from a high-altitude lake*
- Invited Lecturer, *CISBA & ISPRA Practical Course on Fish Community Analysis*, Italy (Oct 7–11, 2019)
- Invited Speaker, *National Conference on Microplastic Pollution in Cetaceans and Marine Environment* (Online, Oct 12, 2021)
Talk: *Microplastic pollution in freshwater environments*
- Invited Speaker, *ECM Webinar on Aquaculture Health*, Italy (Oct 21, 2021)
Talk: *Alpine lakes as natural laboratories for global change research*
- Invited Speaker, *ECM Webinar "Aquaculture and Fish Pathology in the Third Millennium"*, Italy (Apr 29, 2022)
Talk: *Antibiotic resistance in aquatic ecosystems: an emerging issue*
- Scientific Committee Member, *XXV SIPI National Congress*, Messina, Italy (Jun 23–25, 2022)
Talks:
 1. *Stress biomarkers in rainbow trout fed with basil extract*
 2. *Ecotoxicological responses of *Hydropsyche pellucidula* exposed to polypropylene microplastics*
- Presenter, *XXXI SitE Congress*, Siena, Italy (Sep 15, 2022)
Talk: *Combined effects of temperature and pollution on *Daphnia middendorffiana**
- Presenter, *10th Workshop on Ecotoxicological Methodologies*, Lido di Camaiore, Italy (Sep 29, 2022)
Talk: *Use of basil extract in aquaculture: an eco-sustainable alternative?*

- Scientific Committee Member & Invited Speaker, *SUPERTROUT Winter School*, IZS PLV, Turin (Nov 21, 2022)
Talk: *Emerging environmental threats for trout farming*
- Invited Speaker, National Technical-Scientific Meeting – *Health and Food Safety in Italian Aquaculture*, Italian Fish Farmers Association, Turin (Jan 26, 2023)
Talk: *Emerging environmental threats to trout farming*
- Invited Speaker, National Conference “*Future and Innovation in Modern Aquaculture*”, Italy (Apr 21, 2023)
Talk: *Pollution and climate change in aquaculture: 21st-century challenges*
- Presenter, *18th International Conference on Chemistry and the Environment*, Venice, Italy (Jun 12, 2023)
Talk: *High-mountain lakes as indicators of microplastic pollution*
- Scientific Committee Member, *XXVI SIPI National Congress*, Genoa, Italy (Jun 22–24, 2023)
- Presenter, *XXXII SItE Congress*, Catania, Italy (Sep 7, 2023)
Talk: *Persistent organic pollutants in brook trout from Alpine lakes*
- Invited Speaker, Workshop “*Writing a Scientific Article*”, IZS PLV, Turin (Oct 13, 2023)
Talk: *Choosing the right journal: thematic fit, impact factor, and editorial workflow*
- Presenter, *Aquaculture America 2024*, San Antonio, USA (Feb 20, 2024)
Talk: *Occurrence of microplastics in aquaculture systems: risks and mitigation strategies*
- Scientific Committee Member, *5th International Congress on Applied Ichthyology & Aquatic Environment*, Mytilene, Greece (May 30 – Jun 2, 2024)
- Invited Speaker, Summer School – PhD in Biological and Natural Sciences, University of Perugia (Jun 7, 2024)
Talk: *Global change and environmental pollution in aquaculture: 21st-century issues*
- Invited Speaker, *XI Conference on Natural Sciences in Piedmont*, Avigliana, Italy (Sep 22, 2024)
Talk: *The Regional Reference Centre for Aquatic Biodiversity: two years of activity*
- Presenter, *XXXIII SItE Congress*, Rome, Italy (Sep 26, 2024)
Talk: *Chemical pollution in high-mountain Alpine lakes: sources, impacts, and research insights*
- Invited Speaker & Co-Chair, *11th Workshop on Ecotoxicological Methodologies*, ISPRA, Livorno (Nov 26, 2024)
Talk: *High-mountain lakes as indicators of global change*
- Invited Speaker, *IPAM National Conference on NAMs in Ecotoxicology*, Naples (Dec 3, 2024)
Talk: *Toward a green ecotoxicology: innovative methods and invertebrate bioassays*
- Presenter, *Aquaculture America 2025*, New Orleans, USA (Mar 7, 2025)
Talk: *Global change and environmental pollution in trout farming: emerging challenges*
- Chief Chair, *Session 2.14 – Ecotoxicology and Environmental Chemistry in Mountain and Remote Areas*, SETAC Europe 35th Annual Meeting, Vienna, Austria (May 11–15, 2025)

Leadership or Participation in National and International Research Consortia

- **Role:** Member of a national research consortium. **Research activities:** (1) Study of freshwater fish species, focusing on species-specific biology and the structure and dynamics of fish communities; (2) Study of benthic macroinvertebrates, particularly their trophic roles, function in organic matter decomposition, and energy transfer through

trophic levels in freshwater ecosystems, with a focus on organismal energy density and decomposition processes; (3) Application of biotic indices in compliance with the EU Water Framework Directive (2000/60/EC). **Research group:** Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta; University of Trieste (Prof. Elisabetta Pizzul, Dr. Marco Bertoli); University of Salento (Prof. Alberto Basset, Dr. Fabio Vignes); University of Parma (Prof. Francesco Nonnis Marzano, Dr. Claudio Ferrari). Activities documented by several peer-reviewed publications indexed in WOS/Scopus. (01/10/2016 – present)

- **Role:** Coordinator of an international research consortium. **Research activities:** Ecological characterization and assessment of anthropogenic impact on high-mountain lakes. **Research group:** IZS PLV; University of Trieste (Prof. Elisabetta Pizzul, Dr. Marco Bertoli, Prof. P.G. Giulianini, Prof. Monia Renzi, Dr. Gianguido Salvi); University of Perugia (Prof. Antonia C. Elia); Institute of Environmental Assessment and Water Research (Barcelona, Spain: Prof. Damià Barceló, Prof. Antoni Ginebreda, Prof. Romà Tauler, Prof. Silvia Lacorte, Dr. Aina Queral). Activities documented by international WOS/Scopus-indexed publications and two funded projects (ALPLA II: RF= 2020.1871; ALPLA III: RF= 2022.1766) under PI coordination. (01/01/2017 – present)
- **Role:** Member of an international research consortium. **Research group:** IZS PLV; University of Messina (Prof. Caterina Faggio); University of Perugia (Prof. Antonia C. Elia); Bioscience Research Centre (Prof. Monia Renzi, Dr. Serena Anselmi, Dr. Tecla Bentivoglio, Dr. Francesca Provenza); IDAEA-CSIC (Barcelona, Spain: Prof. Damià Barceló, Prof. Antoni Ginebreda); Prof. Christian Sonne (Aarhus University, Denmark); Behbahan Khatam Alanbia University of Technology (Iran: Dr. Mahdi Banaee); University of Burdwan (India: Dr. Shubhajit Saha); Bidhannagar College (India: Dr. Nimai C. Saha). **Research activities:** Effects of environmental contaminants (including emerging ones) on aquatic organisms. Documented by multiple peer-reviewed publications. (01/01/2017 – present)
- **Role:** Member of an international research consortium. **Research group:** IZS PLV; University of Trieste (Prof. Elisabetta Pizzul, Dr. Marco Bertoli); University of Perugia (Prof. Antonia C. Elia); University of Sassari (Dr. Giuseppe Esposito); University of Messina (Prof. Caterina Faggio); Bioscience Research Centre (Prof. Monia Renzi, Dr. Serena Anselmi, Dr. Francesca Provenza); IDAEA-CSIC (Prof. Antoni Ginebreda); Catalan Institute for Water Research (Prof. Damià Barceló); Bangladesh Agricultural University (Dr. Mohammed Manik). **Research activities:** Presence and effects of microplastics in aquatic organisms. Results published in WOS/Scopus-indexed journals. (01/01/2018 – present)
- **Role:** Coordinator of an international research consortium. **Research group:** IZS PLV; University of Trieste (Prof. Elisabetta Pizzul, Dr. Marco Bertoli, Prof. Monia Renzi); University of Perugia (Prof. Antonia C. Elia); University of Turin (Prof. Francesca Bona); University of Bologna (Prof. Annalisa Zaccaroni); ARPA FVG (Dr. Gabriele Piazza); IDAEA-CSIC (Prof. Damià Barceló); Ocean University of China (Dr. Syed Shabi Ul Hassan Kazmi); Behbahan Khatam Alanbia University of Technology (Iran: Dr. Mahdi Banaee). **Research activities:** Presence and effects of trace elements and lanthanides in aquatic environments. Supported by peer-reviewed publications. (01/01/2018 – present)
- **Role:** Member of an international research consortium. **Research group:** IZS PLV; University of Turin (Prof. Giovanni Re, Prof. Cristina Vercelli); IDAEA-CSIC (Prof. Damià Barceló); Ocean University of China (Dr. Syed Shabi Ul Hassan Kazmi); Shantou University (Dr. Zhen Wang, Dr. Mohsan Ullah Goraya); Natural History Museum, London (Prof. Alan Warren). **Research activities:** Antimicrobial resistance in aquatic environments. Outcomes published in WOS/Scopus-indexed journals. (01/01/2019 – present)

Scientific Coordination of National and International Research Projects (peer-reviewed competitive grants)

- Principal Investigator (PI), “Antimicrobial drug resistance in food-producing animals” (Ministry of Health, Italy – Young Researchers Scheme); €345,458; GR-2013-02355796 (2019–2022)
- PI, “ALPLA II - Alpine Lakes, Indicators of Global Change, Part II” (CRT Foundation); €30,000; RF=2020.1871 (2021–2023)
- PI, “RESISTACQUA - Ecology and DNA metabarcoding to study antimicrobial resistance in aquatic environments” (Ministry of Health); €85,040; IZS PLV14/20 RC (2021–2023)
- PI, “BIOTHREATS - Aquatic biodiversity in the climate change era: emerging pathogens and persistent organic pollutants” (Ministry of Health); €110,000; IZS PLV 09/21 RC (2021–ongoing)
- PI, “COVID EFFECT - Impacts of PPE and diagnostic agents used during COVID-19 on aquatic organisms” (CRT Foundation); €35,000; RF=2021.1926 (2022–ongoing)
- PI, “CIRCOLACQUA - Circular economy and alien invasive species in aquatic ecosystems” (Ministry of Health); €110,000; IZS PLV 09/22 RC (2022–ongoing)
- PI, “ALPLA III - Alpine Lakes, Indicators of Global Change, Part III” (CRT Foundation); €30,000; RF=2022.1766 (2023–ongoing)
- Scientific leader of Unit 2 in the project “Mediterranean Sea resilience to directional climate change” (Ministry of Health); €22,500; PI: Dr. Alessandra Favole; IZS PLV 06/22 RC (2022–ongoing)
- PI, “RESILTROUT - Resilient trout farming in the face of global change” (PNRR, Ministry of Agriculture, Italy); €4,486,076.68; 6-CFP (IZSPLV 23E03) (2023–ongoing)

Responsibility for Scientific Studies and Research Assigned by Recognized Public or Private Institutions

- **Principal Investigator** of the research activities under WP3-Action 3.5 “Cross-border observatories of global change and their impacts on biodiversity” within the project “PITEM BIODIVALP Project 3 No. 5217 GEBIODIV,” funded by the ALCOTRA Programme. Lead institution: Région Sud Provence-Alpes-Côte d’Azur; Contracting authority: Management Authority of the Protected Areas of the Cottian Alps (Salbertrand, Turin); amount: €8,999.94. Code: IZSPLV 21D04; from 04-01-2021 to present.
- **Principal Investigator** of the research activities within the project “The 3Rs Rule to Save Biodiversity: Development of Alternative and Innovative Methods for the Protection of Fish Species and Terrestrial Gastropods – 3R-BIO,” funded by the Italian Ministry of Health; amount: €106,666.00. Code: IZSPLV 21M01; from 07-12-2021 to present.
- **Principal Investigator** of the research activities within the project “Strengthening Capacity on Aquatic Animal Health and Epidemiological Surveillance – AQUAE STRENGTH,” funded by the OIE and managed through an agreement with the Istituto Zooprofilattico Sperimentale delle Venezie; amount: €97,100.00. Code: IZSPLV 22E06; from 13-09-2022 to present.

Participation in Funded Research Projects

- **01-01-2018 to 30-01-2021:** coordination of research activities in the project “Disinfectants for Sustainable Aquaculture: Integrated Study on Pathological, Genetic and Enzymatic Effects” (Code: IZSPLV 16C14), funded by the Italian Ministry of

Health. P.I.: Dr. Daniela Meloni.

Duties:

- Coordination of research activities
- Design and setup of ecotoxicological tests with *Sinanodonta woodiana*
- Data collection and analysis using statistical software
- Contribution to interim and final reporting.
- **01-01-2018 to 31-08-2021:** coordination of research activities within the project “ALPLA – ALPine LAkes, indicators of global change” (Code: IZSPLV 18D03), funded by Fondazione CRT. P.I.: Dr. Marino Prearo.

Duties:

- Project design and drafting
- Coordination of research activities
- Fish population and macrozoobenthos sampling and analysis
- Abiotic matrix sampling (water and sediment)
- Sample processing and data analysis
- Preparation of interim and final reports
- Drafting of scientific publications.
- **01-01-2019 to present:** coordination of research activities for the control and analysis of the Louisiana crayfish (*Procambarus clarkii*) population in the Candia Lake Nature Park, within the project “Candia Lake: Conservation of Species and Habitats” (Code: IZSPLV 20D03), funded by the Metropolitan City of Turin. P.I.: Dr. Marino Prearo.

Duties:

- Coordination of research activities
- Biometric analysis and sampling of *Procambarus clarkii*
- Sample processing and data analysis
- Interim reporting.
- **01-01-2020 to present:** coordination of research activities within the project “How Are the Fish in the City? Evaluation of Fish Communities in the Metropolitan Stretch of the Po River” (Code: IZSPLV 20D02), funded by Fondazione CRT. P.I.: Dr. Marino Prearo.

Duties:

- Project design and drafting
- Fish and abiotic matrix sampling (water and sediment)
- Sample processing and analysis
- Data analysis using statistical software
- Interim reporting.
- **From 04-01-2021 to present:** participation in the GEBIODIV Project (Project No. 5217) – “Managing Biodiversity Reserves by Harmonizing Protected Alpine Area Management Methods,” led by Regione Piemonte.

Duties:

- Drafting of the high-altitude lake monitoring protocol ([link to protocol](#))
- **From 01-01-2024 to present:** ongoing participation in the above GEBIODIV Project – Phase II.

Member of Selection Committees for Research Fellowships

- Member of the selection committee for Call No. 13/2024: one research fellowship on “Study and Conservation of Aquatic Biodiversity.” Scientific supervisor: Prof. Livio Favaro, University of Turin, Department of Life Sciences and Systems Biology.
- Member of the selection committee for Call No. 32/2023: one research fellowship on “Study and Conservation of Aquatic Biodiversity.” Scientific supervisor: Prof. Livio Favaro, University of Turin.
- Member of the selection committee for Call No. 31B/2021/VET: one 7-month research fellowship funded by the European PRIMA Project – IZSPLV SUB-PROJECT “SUPERTROUT” (Code: 20E03), scientific supervisor: Prof. Benedetto Sicuro, University of Turin, Department of Veterinary Sciences. Director’s Decree No. 73 (Prot. 2657).
- Member of the selection committee for a research fellowship (6 months) funded by the ERA-NET WaterWorks 2015 Project “Aquaval,” focused on “Use of Alternative Raw Materials in Aquaculture,” hosted by the University of Turin, Department of Veterinary Sciences. Scientific supervisor: Prof. Benedetto Sicuro.

Member of PhD Program Boards

- **From academic year 2024/2025:** appointed as a member of the PhD Board in Biological and Natural Sciences at the University of Perugia, as representative of the academic discipline BIOS-05/A – Ecology.

Institutional Roles

- **From 01-12-2024:** EFSA Scientific Representative for the area 4.11 “Environmental Risk Assessment (ERA)”.
- **From 10-02-2023:** Chair of the “Scientific Research Support Committee”, Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d’Aosta. Appointment by General Director’s Resolution No. 19/B10303/2023.
- **From 31-03-2023:** Member of the Animal Invasive Alien Species Working Group of the Piedmont Region. Strategy and action plan for the management of non-native species in Piedmont (Protocol No. 3014-2023).

Membership in Scientific Societies

- Professional Member (Explorer) of the **Society of Environmental Toxicology and Chemistry (SETAC)**
- Member of the **Italian Society of Ecology (S.It.E.)**
- Member of the **Italian Association of Freshwater Ichthyologists (A.I.I.A.D.)**
- Member of the **Italian Center for Environmental Biology Studies (C.I.S.B.A.)**
- Member and Board Member of the **Italian Society of Fish Pathology (S.I.P.I.)**

Editorial Activity

- **Associate Editor** for the international journal *Aquatic Toxicology* (Elsevier). [Link](#); from 01-04-2025 to present.
- **Associate Editor** for the international journal *Chemosphere, Toxicology and Risk Assessment* section (Elsevier). [Link](#); from 01-01-2024 to present.
- **Editorial Board Member** of the journal *Environmental Research* (Elsevier; ISSN: 0013-9351). [Link](#); from 09-02-2022 to present.
- **Editorial Board Member** of the journal *Journal of Hazardous Materials Letters* (Elsevier; ISSN: 2666-9110). [Link](#); from 13-02-2022 to present.

- **Editorial Board Member** of the journal *Journal of Hazardous Materials Advances* (Elsevier; ISSN: 2666-9110). [Link](#); from 04-04-2022 to present.
- **Editorial Board Member** of the journal *Science of the Total Environment* (Elsevier; ISSN: 1879-1026). [Link](#); from 10-08-2022 to present.
- **Editorial Board Member** of the journal *Journal of Hazardous Materials* (Elsevier; ISSN: 0304-3894). [Link](#); from 07-12-2022 to present.
- **Editorial Board Member** of the journal *Environmental Toxicology and Pharmacology* (Elsevier; ISSN: 1382-6689). [Link](#); from 22-03-2023 to present.
- **Editorial Board Member** of the international journal *Ecological Indicators* (Elsevier; ISSN: 1470-160X). [Link](#); from 21-10-2020 to present.
- **Editorial Board Member** of the journal *Journal of Contaminant Hydrology* (Elsevier; ISSN: 1873-6009). [Link](#); from 02-06-2023 to present.
- **Editorial Board Member** for the international journal *Pollutants* (MDPI; EISSN 2673-4672). [Link](#); from 01-01-2021 to present.
- **Editorial Board Member** of the journal *WATER EMERGING CONTAMINANTS & NANOPLASTICS* (OAE Publishing Inc.). [Link](#); from 23-12-2021 to present.
- **Editorial Board Member** of the *Italian Journal of Freshwater Ichthyology* (official journal of A.I.I.A.D. – Italian Association of Freshwater Ichthyologists). [Link](#); from 01-01-2017 to present.
- **Guest Editor** for the journal *Green Analytical Chemistry* (Elsevier; ISSN: 2772-5774), special issue “Green analytical chemistry methods for ecotoxicological studies: challenges and recommendations”. [Link](#); from 01-10-2023 to present.
- **Guest Editor** for *Environmental Toxicology and Pharmacology* (Elsevier), special issue “Microplastics and their environmental effects”. [Link](#)
- **Guest Editor** for the international journal *Current Opinion in Environmental Science & Health* (Elsevier; ISSN: 2468-5844); from 18-09-2024 to present. [Link](#)
- **Guest Editor** for the international journal *Journal of Contaminant Hydrology* (Elsevier; ISSN: 1873-6009); from 1-04-2023 to present. [Link](#)
- **Topical Advisory Panel Member** for the international journal *Ecologies* (MDPI; EISSN 2673-4133). Topic: Aquatic Ecology, Ecotoxicology. [Link](#); from 01-01-2019 to present.
- **Guest Editor** for the international journal *Diversity* (MDPI; EISSN 1424-2818), special issue “High-Mountain Lakes, Indicators of Global Change: Ecological Characterization and Environmental Pressures”. [Link](#); from 01-04-2020 to present.
- **Guest Editor** for the international journal *Diversity* (MDPI; EISSN 1424-2818), special issue “High-Mountain Lakes, Indicators of Global Change: Ecological Characterization and Environmental Pressures – 2nd Edition”. [Link](#); from 30-10-2023 to present.
- **Guest Editor** for the international journal *Journal of Marine Science and Engineering* (MDPI; EISSN 2077-1312), special issue “Environmental Stressors and Pathology of Marine Molluscs”. [Link](#); from 01-12-2021 to present.
- **Chief Guest Editor** for the international journal *International Journal of Environmental Research and Public Health (IJERPH)* (MDPI; EISSN 1660-4601), special issue “Contaminants of Emerging Concern (CECs): Occurrence and Fate in Aquatic Ecosystems”. [Link](#); from 01-08-2021 to present.
- **Guest Editor** for the journal *Journal of Marine Science and Engineering* (MDPI; EISSN 2077-1312), special issue “Chemical Contamination on Coastal Ecosystems”. [Link](#); from 01-01-2023 to present.

Peer-Review Activity

Reviewer for more than 400 manuscripts for several international journals, including: *Hydrobiologia*, *Ecotoxicology*, *Ecological Indicators*, *Chemosphere*, *Environmental Pollution*, *Ecology and Evolution*, *Fishes*, *International Journal of Environmental Research and Public Health*, *Animals*, *International Journal of Molecular Sciences*, *Journal of Environmental Pollution and Management*, *Journal of Advances in Microbiology*, *Journal of Public Health and Disease Prevention*, *Science of the Total Environment*, *Environmental Toxicology and Pharmacology*, *Microbial Drug Resistance*, *Water*, *Diversity*, *Journal of Hazardous Materials*, *Journal of Hazardous Materials Advances*, *Journal of Hazardous Materials Letters*, *Microorganisms*, *Aquatic Toxicology*, *Journal of Environmental Management*, *Phyton*, *Frontiers in Microbiology*, *Frontiers in Marine Science*, *Acta Parasitologica*, *Genes*, *Infection Genetics and Evolution*, *Nature Conservation Research*, *Arabian Journal of Geosciences*, *Diseases of Aquatic Organisms*, *Environments*, *PLoS ONE*, *Aquaculture*, *MethodsX*, *The Egyptian Journal of Aquatic Research*, *Water Biology and Security*, *Reviews of Environmental Contamination and Toxicology*, *Journal of Contaminant Hydrology*, *Current Opinion in Environmental Science & Health*.

Awards

- **2012** – Prize for academic merit, Faculty of Veterinary Medicine, University of Bologna; awarded by the Rector Prof. Ivano Dionigi
- **2018** – Best Scientific Contribution Award (under 30), A.I.I.A.D. National Congress, sponsored by the National Biologists' Council
- **2019** – 3rd Place, Ettore Grimaldi Award (Best Publication), S.I.P.I.
- **2019** – Pietro Ghittino Award for Best Young Researcher under 40, S.I.P.I.
- **2020** – 3rd Place, “Naturalist of the Year” Award, Associazione Naturalistica Piemontese
- **2020** – Pietro Ghittino Award and Best PhD Thesis Award, S.I.P.I.
- **2021** – “Mario Pavan” Award for Best PhD Thesis on Human-Nature Interactions and Sustainability (City of Varese & Schiaparelli Association)
- **2021** – Pietro Ghittino Award, S.I.P.I.
- **2022** – 2nd Place, Ettore Grimaldi Award (Best Publication), S.I.P.I.
- **2023** – 1st Place, Ettore Grimaldi Award (Best Publication), S.I.P.I.
- **2024** – Certificate of Excellence in Reviewing, *Chemosphere*
- **2024** – 1st Place, Ettore Grimaldi Award (Best Publication), S.I.P.I.
- **2025** – 1st Place, Ettore Grimaldi Award (Best Publication), S.I.P.I.
- **2025** – Pietro Ghittino Award, S.I.P.I.

Teaching Activities

- **Date (from – to):** Academic Year 2023/2024 (June 6, 2024) – 1 hour (in-person teaching)
Institution: University of Perugia
 PhD Program in Biological and Natural Sciences
Host: Prof. Antonia Concetta Elia
Topics covered: Environmental pollution in Aquaculture
- **Date (from – to):** Academic Year 2023/2024 (April 16, 2024) – 5 hours (in-person teaching)
Institution: University of Sassari
 PhD Program in Veterinary Sciences
Host: Prof. Elisabetta Antuofermo
Topics covered: Ecology and ecotoxicology of aquatic animals
- **Date (from – to):** December 2021 – ongoing
Institution: University of Turin
 Department of Veterinary Sciences

Bachelor's Degree in Management and Production of Farmed and Wild Animals

Role: Member of the examination board for the course "Vertebrate Biology and Ecology, 8 ECTS [Code: VET0204]", course instructors: Prof. Chiara Salio; Dr. Paolo Pastorino.

Dates of exams: 17/12/2021; 26/01/2022; 09/02/2022; 23/02/2022; 11/04/2022; 20/07/2022; 08/09/2022; 02/11/2022; 30/01/2023; 21/02/2023; 04/04/2023; 20/06/2023; 04/07/2023; 26/07/2023; 30/01/2024; 15/02/2024; 10/09/2024

- **Date (from – to):** September 20, 2021 – ongoing (A.Y. 2021/2022; 2022/2023; 2023/2024)

Employer: University of Turin

Department: Department of Veterinary Sciences

Position: Adjunct Professor

Duties: Co-Instructor of the Integrated Course "Vertebrate Biology and Ecology" (8 ECTS) – bachelor's degree in management and production of Farmed and Wild Animals

Topics covered: Ecology: definitions and historical background. Organismal responses to environmental variation. Ecosystems: components and types. Food chains and trophic levels. Ecological pyramids. Community structure. Species frequency and dominance. Species abundance distributions. Ecological succession. Biodiversity and habitat heterogeneity. Populations and demographic parameters. Population growth. Contaminant cycles. Introduction to Ecotoxicology. Native and non-native species. Biodiversity and conservation. Seminars in applied ecology.

- **Date (from – to):** December 13, 2022 – 3 hours (lecture)

Institution: University of Trieste, Department of Life Sciences

master's degree in Global Change Ecology; Ecotoxicology course (Scientific Sector: BIO/07)

Host: Prof. Monia Renzi

Topics covered: Antibiotic resistance and emerging environmental contaminants in aquaculture: current situation and future perspectives

- **Date (from – to):** May 16, 2022 – 4 hours (lecture)

Institution: University of Turin

Department of Life Sciences and Systems Biology

master's degree in environmental biology (LM-06)

Course in Zoological Sampling Methods

Course Instructor: Dr. Massimo Meregalli

Topics covered: Italian ichthyofauna

- fish anatomy and physiology
- identification and systematics of Italian and Piedmontese ichthyofauna
- fish translocations, native and non-native species
- fish sampling
- fish maps
- ichthyic indices (ISECI and others)
- **Date (from – to):** May 10, 2021 – 4 hours (remote lecture)
(same course and content as above)
- **Date (from – to):** May 25, 2020 – 4 hours (remote lecture)
(same course and content as above)
- **Date (from – to):** October 3, 4, and 14, 2019 – 12 hours (in-person lectures)

Institution: ARSIAL - Regional Wildlife Observatory, Via Rodolfo Lanciani 38, 00162 - Rome

Topics covered:

- Elements of aquatic ecosystem ecology
- Resource management
- Inland water ichthyofauna

- **Date (from – to):** May 27–31, 2019 – 12 hours (in-person lectures)
(same institution and topics as above)
- **Date (from – to):** May 9, 2019 – 4 hours (in-person lecture)
(same course and content as above – *Zoological Sampling Methods*, University of Turin)
- **Date (from – to):** November 24, 2018 – 6 hours (in-person lecture)
(same institution and topics as ARSIAL lectures above)
- **Date (from – to):** May 10, 2018 – 4 hours (in-person lecture)
(same course and content as above – *Zoological Sampling Methods*, University of Turin)
- **Date (from – to):** April 19, 2018 – 3 hours (in-person lecture)
Institution: University of Perugia
Department of Chemistry, Biology and Biotechnology
bachelor's degree in Biological Sciences
Course in Ecology
Course Instructor: Prof. Antonia Concetta Elia
Topics covered: Alpine lakes: open-air laboratories for studying anthropogenic impact
- **Date (from – to):** May 11, 2017 – 4 hours (in-person lecture)
(same course and content as above – *Zoological Sampling Methods*, University of Turin)
- **Date (from – to):** March 21, 2016 – 4 hours (in-person lecture)
(same course and content as above – *Zoological Sampling Methods*, University of Turin)
- **Date (from – to):** A.Y. 2016/2017 (30 hours); 2017/2018 (30 hours); 2018/2019 (30 hours); 2019/2020 (30 hours)
Institution: University of Turin, Department of Veterinary Sciences
Degree Course in Veterinary Medicine – practical internship at IZSPLV
Topics covered: Practical training with students (in groups of 6) at the Laboratory of Aquaculture, Fish Pathology, and Aquatic Environment Biology, Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta (IZSPLV)

Publications

Proceedings of National Conferences

1. Mossotto, C., Maganza, A., Gabetti, A., Anselmi, S., Provenza, F., Trevisan S., Elia, A.C., Renzi, M., Esposito, G., Prearo, M., **Pastorino, P.** (2024). Gadolinio e contaminazione ambientale: effetti su diversi livelli trofici degli ecosistemi acquatici. 11° Edizione delle Giornate di Studio Ricerca e Applicazione di Metodologie Ecotossicologiche. Livorno, 26-28 novembre 2024.
2. Maganza, A., Mossotto, C., Gabetti, A., Provenza, F., Anselmi, S., Bentivoglio, T., Esposito, G., Elia, A.C., Renzi, M., Prearo, M., **Pastorino, P.** (2024). Effetti del gadolinio su ecosistemi di acqua dolce: risposta allo stress ossidativo su specie invasive. 11° Edizione delle Giornate di Studio Ricerca e Applicazione di Metodologie Ecotossicologiche. Livorno, 26-28 novembre 2024.
3. Gabetti, A., Maganza, A., Mossotto, C., Esposito, G., Nocita, A., Renzi, M., Anselmi, S., Bentivoglio, T., Bozzetta, E., Prearo, M., **Pastorino, P.** (2024). Utilizzo di *Sinotia quadrata* come bioindicatore di inquinamento da microplastiche in ecosistemi d'acqua dolce in Toscana. 11° Edizione delle Giornate di Studio Ricerca e Applicazione di Metodologie Ecotossicologiche. Livorno, 26-28 novembre 2024.
4. Gabetti, A., Mossotto, C., Esposito, G., Bondavalli, F., Maganza, A., Renzi, M., Anselmi, S., Bentivoglio, T., Prearo, M., **Pastorino, P.** (2024). Assessment of microplastic pollution in the gastrointestinal tract of fishes sampled in Alpine Lake. XIX CONVEGNO NAZIONALE A.I.I.A.D. ASSOCIAZIONE ITALIANA ITTIOLOGI ACQUE DOLCI, 17-19 ottobre 2024, Parma:
5. **Pastorino P.**, Squadrone S., Lo Conte P., Mossotto C., Esposito G., Maganza A., Renzi M., Abete M. C., Bozzetta E., Prearo M. (2024). Detection of rare earth elements in abiotic and biotic matrices: a case study from the Po River (Northwest Italy). XIX CONVEGNO NAZIONALE A.I.I.A.D. ASSOCIAZIONE ITALIANA ITTIOLOGI ACQUE DOLCI, 17-19 ottobre 2024, Parma: 119.

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I, the undersigned Paolo Pastorino, pursuant to Articles 46 and 47 of Presidential Decree No. 445/2000, and aware of the criminal penalties provided for in Article 76 of the same Decree in the case of false declarations, falsification of documents, or use of false or outdated documents, hereby declare that the information provided below is true and accurate. I authorize the processing of the personal data contained in this curriculum vitae in accordance with Italian Law 196/2003, "Personal Data Protection Code".

Torino (Italy), 16/12/2025

Signature

A handwritten signature in blue ink, consisting of a stylized 'P' followed by a series of loops and a final flourish.