

Curriculum Vitae et Studiorum

Roberta Bettinetti

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Born: January 21, 1969; Milan, Italy

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A daughter, Caterina (2004)

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Current Position

From 01.05.2023 **Full Professor BIO/07**, University of Insubria.

Synthesis of Scientific Approach and Main Field of Research

The research work I have been conducting over the last 15-20 years, as individual researcher and as team leader, falls in the ecological and ecotoxicological aquatic fields (marine, transitional, and freshwater, lakes in particular) and it is related to defining ecosystem structure and function under stress conditions. One aspect I have been constantly and successfully addressed is the bioaccumulation of persistent organic micropollutants (legacy and emerging contaminants such as DDT, PCBs, endocrine disruptors, PFAS), and heavy metals to assess their transfer into aquatic food webs and the potential risk to terminal predators and ecosystems as a whole (comprising humans and their health). Within these topics, the idea of melting glaciers as a secondary source of contaminants for the aquatic environment had great relevance, even from a mediatic point of view.

I have been paying attention to two cognate areas: the ecology and ecotoxicology of zooplankton communities of the southern Alpine lakes (Lake Maggiore, Lake Como, Lake Varese, Lake Mergozzo, Lake Iseo) and zooplanktivorous fish and zooplankton of marine environments (to whale sharks), in such areas as the Gulf of Djibouti and others. Most recently, I have been working on the biological and ecological characterization of the Western Mediterranean Sea (Canyon of Caprera, in particular). I am part of the CIP AIS monitoring program (Italian-Swiss Water Protection Commission) in a research cluster conceived to assess the state of contamination by DDT and PCB of Lake Maggiore and the resulting potential ecological consequences; I'm also collaborating with the AQTS Lombardy Region group set up for the recovery of Lake Varese, where I deal with the contamination of two fish species and bottom sediments by DDT, PCB and PFAS.

To define the risk of pure and mixture of contaminants in the environment, I use ecotoxicological tests, meant as a tool to investigate the exposure effects on invertebrate organisms in laboratory conditions.

I am also involved at a local level with various aspects related to the quality and quantity of the waters of the Como sub-basin to improve knowledge dissemination in the wider territory. I collaborate with the De Agostini family (cartography), based in Como and related to the De Agostini company, initially

in Novara, to enhance their heritage/public presence in terms of exhibitions and other dissemination activities. I have also been collaborating with other local major entities as, for example, Barca Lariana Museum (one of the best boat museums in the world, and the most important one for lakes) and Proteus Association (environmental conservation and dissemination association, Como), among others. More recently, I am carrying out new research of climatic reconstruction through a paleolimnological study of lake sediment cores sampled in Lake Como. In addition to the "classic" reconstruction proxies I investigate the presence of microplastics and the appearance of alien species and the antibiotic resistance through the eDNA techniques. As for the coastal sediments, as part of another PhD project, I am also investigating the presence of microplastics and their chemical characterization in the sediments and benthic organisms of Lake Como, Como basin. In the years 2025–2026, I further strengthened my research line on microplastics in aquatic environments, with a specific focus on deep subalpine lakes and transitional systems. This work expanded both the ecological and ecotoxicological dimensions of my research, integrating advanced analytical approaches for the detection, quantification, and chemical characterization of microplastics in water, sediments, and benthic organisms. During this period, I also developed new experimental frameworks to assess sub-lethal and functional responses of aquatic invertebrates to microplastic exposure, including interactions with emerging contaminants and the potential for combined effects. This research activity resulted in new scientific publications, listed in the attached updated bibliography, and contributed to consolidating my role within the national and international scientific community working on microplastic pollution in freshwater ecosystems. My research, as an individual researcher and as a team-leader/Principal Investigator is deeply connected with the territory of Insubria and in general with Northern Italy. As a researcher in ecology, I work in close connection with other research clusters at University of Insubria and within the same Department of Human Sciences, Innovation and Territory (that presents a substantial hard-sciences section), especially in areas related to Environmental Humanities, where I represent the hard-sciences point of reference, collaborating with several colleagues. Furthermore, I am deeply involved in all the aspects related to the pedagogical dimension(s) of science; in particular, in the teaching area of "Science of Communication" (as such a social-human science discipline), where I deal, as a researcher and as a teacher, with the problems/potential of the communication of science (aquatic ecology in particular), both at the college, and at the public level, thus working as *a trait-d'union* between the humanities and the sciences, both amply cultivated at Insubria and in particular at departmental level (DISUIT).

Other affiliations

- 01.06.2017-31.05.2020** Associated with CNR IRSA Verbania Pallanza for the spatio-temporal characterization and quantification of contaminants in zooplankton and the factors governing their transfer in the pelagic trophic web of Lake Maggiore and other large deep lakes ("CIPAIS project and others").
- 25.06.2012-30.06.2014** Associated with CNR IRSA Brugherio in the "PFAS" and "CIPAIS" Projects, and generally in the TAP04.021.007 Module/Diffusion, distribution, bioaccumulation, and transformation of pollutants in aquatic ecosystems (Order: TAP04.021/Fate and effects of contaminants in aquatic systems).

Appointments Held

- 01.04.2015-1.05.2023** **Associate Professor BIO/07** (L. 240/2010 - Comparative Evaluation 21.11.2014, Sector 05/C1), University of Insubria.
- From 08.10.2018** National Scientific Qualification ASN as Full Professor, Sector 05/C1 BIO/07, in Italian Universities (ASN 8/10 art. 16 comma 1, Law 240/10, positive votes 5/5); opinions of the ASN Committee are provided on pages 22-23 of this CV (Attachment n. 1).

- 31.12.2002-31.03.2015** Assistant Professor-Researcher BIO/07 University of Insubria (“*Ricercatore confermato*” 15.02.2006).
- 2000-2002** Post-Doctoral Fellow and Lecturer, University of Milan (Advisor: Prof. A. Provini), Dep. of Biology. “Ecotoxicological characterization of river sediments by analytical chemistry and ecotoxicity tests with benthic invertebrates”.

Education

- 1999-2000** Grant at CNR IRSA Verbania Pallanza, “Paleolimnology reconstructions and paleo-clime” (Advisor: Dr P. Guilizzoni; n. 201.16.15, Code n. 01.16.20, 50/50).
- 1997-1999 and 02.02.2000 (defence)** PhD (XII cycle) in Invertebrate Biology, University of Milan, Italy. Advisors: Prof. S. Galassi and Prof. A. Provini. Thesis: “Freshwater sediment ecotoxicity tests using benthic invertebrates”. In a nutshell, several sediment toxicity tests with benthic invertebrates were set up.
- 1995-1996** Grant at CNR IRSA Verbania Pallanza, “Ecology of aquatic ecosystems in natural and stress conditions” (Advisor: Dr A. Marchetto; n. 201.19.1 Code 13.01.02, 30/30).
- 1994-1995** Post graduate internship, CNR IRSA Verbania Pallanza; “Paleolimnology of deep lakes (Advisor: Dr A. Marchetto e Dr A. Lami; diatoms, Chrysophyceae, pigments analyses)” - Qualification as a Biologist in 1995.
- 28.02.1994** Master Sc. (Laurea) in Biological Sciences, University of Milan. Tutors: Prof. A. Zullini, Prof. L. Garibaldi, Dr A. Pugnetti. Thesis: “Phytoplankton communities of two alpine lakes (Lakes Paione, Northern Italy)”, carried out at CNR IRSA Verbania Pallanza. *110/110 Lode*.
- 1989-1989** One year in Dublin as *au-pair* university student.
- 1988** Scientific High School Diploma, Monza (MB).

Visiting

- 2019** Staff mobility for teaching ecotoxicology at the University of Auckland, New Zealand, Prof. N. Singhal (rescheduled for Covid pandemia in 2023).
- 2016-1 month** Staff mobility for teaching at the University of Warsaw, Microbial Ecology Dep, Prof. I. Jasser.
- 2011-1 week** Université de Montréal, Quebec, Canada, Prof. A. Cattaneo - lectures on freshwater sources, lakes in particular (8 hrs).
- 2009-1 month** Staff mobility, research project on flamingos and their diet of Lake Natron, Tanzania, Prof. K. Mavuti (University of Nairobi) and Prof. D. Harper, University of Durham, UK.

Awards and Prizes

- 2022** Best review of the years 2019-2021 (Bellasi A., Binda G., Pozzi A., Galafassi S., Volta P., Bettinetti R. 2020. Microplastic Contamination in freshwater environments: a review, focusing on interactions with sediments and benthic organisms. *Environments* 7, 30: 1-27 - article n. 20).
- 2018** Award *National Geographic Society* for the research “*Habitat use and movements of the whale shark in Djibouti*”, EC-45127R-18.
- 2017** CAI award for the Master Thesis in Environmental Sciences on alpine lakes (Antonio Pistocchi-Evoluzione a lungo termine dell'idrochimica di laghi alpini di alta quota in relazione a fattori meteorologici).
- 2016** Science for Environment Policy, Issue 451, a service from the European Commission - Bettinetti, R. et al. (2016) Recent DDT and PCB contamination in the sediment and biota of the Como Bay (Lake Como, Italy). *Sci. Tot. Environ.* 542: (404-410), article n. 39.
- 2011** AMBIO journal cover (article n. 61).
- 2009** “Premio Marchetti” by SItE Bolzano (Valutazione dell'uso di specie ittiche per il biomonitoraggio degli inquinanti organici persistenti nelle acque).

- 2009** Lions Club Como, Host award for the best Master Thesis in Environmental Sciences (Linda Lucchesi - Sedimenti come archivio della contaminazione da DDT nel Lago d'Iseo).
- 2009** Cited by Environmental Health Perspectives. 2009. Volume 117 (12): A538, for the article Bettinetti R. et al. 2008 - Is meltwater from Alpine glaciers a secondary DDT source for lakes? *Chemosphere*, 73 (7): 1027-1031 (article n. 66).

Scientific Research Projects (organization, supervision and participation of research groups)

- 001.11.2023** *LIFE project (Collaborator of workpackage 4). Four years project LIFE-CASCADE, (Closed-loop wAter Systems in textile industrial distriCts: multimodal orchestrAteD rEmoval of emerging pollutants from textile wastewater), Call: LIFE-2022-SAP-ENV-ENVIRONMENT. Project n.: 101113942. University of Insubria, Como.*
- 14.10.2023** *PRIN Project (P.I.). 20224MZ9HN (29/03/2022) BATS-SIGNALS: Bats signalling environmental contaminants: integration of non-invasive biomonitoring and -omics approaches.*
- From 2022** Scientific Supervisor of the research BLUEAT TM, "Alien is good, alien is food", a project about the ecological relevance of the blue crab and its possible use as human food.
- 2022** Scientific Supervisor of the coordinator of the Project M.A.R.E. Marine Adventure Research Education Project, *Centro Velico Caprera* and *One Ocean Foundation*.
- 2020-present** Associate Investigator, Marsden Fund, Royal Society "Exploiting the ancient microbial response to reactive oxygen species to degrade persistent emerging contaminants" *P.I.* Prof. N. Singhal, NZ.
- 2019-2023** *P.I.* of Work Package B.1.2, Regione Lombardia, remediation project of Lake Varese.
- 2022-2024** *P.I.* CIPAIS (International Commission for the Protection of Italian-Swiss Waters), Contamination of DDT and PCB zooplankton of Lake Maggiore (Italy).
- 2019-2021** *P.I.* CIPAIS (International Commission for the Protection of Italian-Swiss Waters), Contamination of DDT and PCB zooplankton of Lake Maggiore (Italy).
- 2018-2020** Co-direction with Prof. C. Dossi for the ecological aspects - in collaboration with PoliMI, Prof. L. Magagnin. "ABISSI Project: dalle Alghe alle Batterie a Ioni Sodio: Sostenibilità e Innovazione", Fondazione Banca del Monte di Lombardia (Articles n. 14, 24, 38).
- 2016-present** Co-direction of the project "The ecology/ecotoxicology of whale sharks in Djibouti" - in collaboration with local Research Centre for the technical aspects (Dr Omar).
- 2016-2018** *P.I.* CIPAIS (International Commission for the Protection of Italian-Swiss Waters) Contamination of DDT and PCB zooplankton of Lake Maggiore (Italy).
- 2012-2015** *P.I.* CIPAIS (International Commission for the Protection of Italian-Swiss Waters) Contamination of DDT and PCB zooplankton of Lake Maggiore (Italy).
- 2006-2008** Organization and participation in UNIMI of PRIN Project (*P.I.* of the Unit Prof. S. Galassi): "Genetica di popolazione dell'anguilla europea (*Anguilla anguilla*) mediante microsatelliti EST-linked. Verifica del differenziamento geografico di popolazioni italiane rispetto alla variabilità temporale ed ai possibili effetti selettivi di alcuni inquinanti". *P.I.* of the project Prof. G. De Leo. Prot.: 2006054928_003 dal 01-01-2006 (articles n. 53, 62).
- 2005-2006** *P.I.* for Lake Como contaminants of PLINIUS Project "Progetto limnologico integrato per il recupero del ramo di Como a un uso sostenibile e partecipato dell'ecosistema lariano", Centro di Cultura Scientifica A. Volta, Como.
- 2002-2005** Organization and participation in UNIMI of UE COMPRENDO Project (*P.I.* of the Unit Prof. S. Galassi) "Comparative Research on Endocrine Disruptors; ten different European partners participated

studying the diets (“market basket approach”) of different nations, to define the risks for human health”; EU Contract No. EVK1-CT-2002-00129 (articles n. 65, 69, 70, 71).

- 2003-2004** Italian *P.I.* of the international project to set up an ecotoxicity test on sediments with *Lumbriculus variegatus* -partner of ECT Oekotoxikologie GmbH Insitute Rosheim, D (Dr Egeler) (OECD Guideline 225).
- 2001** One year research contract Antibioticos S.p.A. (Ecotoxicological tests of the factory effluent).
- 1996-1999** Participation in UE MOLAR Project WP1 - Microbial food web - CNR IRSA Pallanza (articles n. 74, 81).
- 1994-1996** Participation in UE project PALICLAS (Paleoenvironmental Analyses of Italian Crater Lakes Sediment) at CNR IRSA Verbania Pallanza (articles n. 79, 83, 84).
- 1992-1994** As a master student collaborator of UE project AL:PE (Acidification of mountain Lakes: Paleolimnology and Ecology) at CNR IRSA Verbania Pallanza.

Collaborations with Foreign Institutes

- NIVA, Oslo, Dr Nizzetto, Dr Binda (publication n. 1, 2, 7, 13, 20, 57);
- ECT Oekotoxikologie GmbH Florsheim, Germania, Dr Egeler (OECD Guideline 225, *Lumbriculus variegatus*);;
- University of Oslo, Prof. Borgå (publications n. 23, 57);
- University of Nairobi, Prof. Mavuti (Staff mobility);
- University of Warsaw, Microbial Ecology Dep., Prof. Jasser (Staff mobility);
- Centre d'Etude et de Recherche de Djibouti Route de l'aéroport, Djibouti, Djibouti, Dr Omar (Project “The ecology/ecotoxicology of whale sharks in Djibouti”);
- United Arab Emirates University, Prof. Hamza (External reviewer of Master thesis, University of United Arab Emirates and project on desertification);
- Laboratoire Interdisciplinaire des Environnements Continentaux CNRS - Université de Lorraine Metz, Dr Vignati (publications n. 18, 31, 41, 46, 52, 54, 65);
- INIBIOMA/CONICET 8400 S.C. de Bariloche, Laboratorio de Biodiversidad, Argentina, Dr Massaferrro (Paleo-proxy fossil remains, chironomids - visiting scheduled in 2024);
- ETH Zurich, Prof. Mitrano (Article in preparation: *Ecotoxicological responses of Lumbriculus variegatus to microplastics exposure*);
- University of Auckland, Prof. Singhal (Project “Exploiting the ancient microbial response to reactive oxygen species to degrade persistent emerging contaminants” and staff mobility).

Teaching at the University

- a.a.** Ecotoxicological tests (6 CFU), Aquatic ecosystems and water grabbing (6 CFU), Paleoclimatic reconstructions (2 CFU),
2025/2026 Environmental Sciences (SA Master), Applied Ecology (6 CFU) Science of Environment and of Nature (SAN Bachelor), Water sources (PhD course).
- a.a.** Ecotoxicological tests (6 CFU), Aquatic ecosystems and water grabbing (6 CFU), Paleoclimatic reconstructions (2 CFU),
2024/2025 Environmental Sciences (SA Master), Applied Ecology (6 CFU) Science of Environment and of Nature (SAN Bachelor), Water sources: knowledge and communication (2cCFU), Science and Technology in Communication (STEC Master), University of Insubria.
- a.a. 2023/2024** Ecotoxicological tests (6 CFU), Aquatic ecosystems and water grabbing (6 CFU), Paleoclimatic reconstructions (2 CFU), Environmental Sciences (SA Master), Applied Ecology (6 CFU) Science of Environment and of Nature (SAN Bachelor), Water sources: knowledge and communication (2cCFU), Science and Technology in Communication (STEC Master), University of Insubria.
- a.a. 2022/2023** Ecotoxicological tests (6 CFU), Aquatic ecosystems and water grabbing (6 CFU – 32 hrs of lab taught by RTDa), Paleoclimatic reconstructions (2 CFU), Environmental Sciences (SA Master), Applied Ecology (6 CFU – 32 hrs of lab

- taught by RTDa) Science of Environment and of Nature (SAN Bachelor), Water sources: knowledge and communication (8 CFU), Science and Technology in Communication (STEC Master), University of Insubria.
- a.a. 2021/2022** Ecotoxicological tests (6 CFU), Aquatic ecosystems and water grabbing (6 CFU), Paleoclimatic reconstructions (2 CFU) Environmental Sciences (SA Master), Applied Ecology (6 CFU – 32 hrs of lab taught by RTDa) Science of Environment and of Nature (SAN Bachelor), Lacustrine environments: knowledge and enhancement (8 CFU) Science and Technology in Communication (STEC Master), University of Insubria.
- a.a. 2020/2021** Ecotoxicological tests (6 CFU), Aquatic ecosystems and water grabbing (6 CFU) Environmental Sciences (SA Master), Applied Ecology (6 CFU) Science of Environment and of Nature (SAN Bachelor), University of Insubria.
- a.a. 2019/2020** Ecotoxicological tests (4 CFU), Terrestrial and aquatic ecosystems (6 CFU) Environmental Sciences (SA Master), Applied Ecology (6 CFU) Science of Environment and of Nature (SAN Bachelor), Lacustrine environments: knowledge and enhancement (8 CFU) Science and Technology in Communication (STEC Master), University of Insubria; Applied Ecology (6 CFU), Biological Sciences, University of Milan Bicocca, PhD course DISCA (3 CFU), University of Insubria.
- a.a. 2018/2019** Ecotoxicological tests (4 CFU), Terrestrial and aquatic ecosystems (6 CFU) Environmental Sciences (SA Master), Applied Ecology (6 CFU) Science of Environment and of Nature (SAN Bachelor), Master MA038 General biology of animal communities - Communication of fauna and human dimension (2 CFU), University of Insubria.
- a.a. 2017/2018** Chemometrics and Ecotoxicological tests (part B - 4 CFU), Terrestrial and aquatic ecosystems (6 CFU) Environmental Sciences (SA Master), Biomonitoring (Ecology 4 CFU) Biological Sciences (Master); Lectures at the Specialization School in Assessment and Management of Chemical Risk (3 CFU), University of Insubria.
- a.a. 2016/2017** Applied Ecology (6 CFU) Science of Environment and of Nature (SAN Bachelor), Chemometrics and Ecotoxicological tests (part B - 4 CFU), Terrestrial and aquatic ecosystems (6 CFU) Environmental Sciences (SA Master), University of Insubria - Lectures at the Specialization School in Assessment and Management of Chemical Risk (3 CFU) PhD course DISCA (3 CFU), University of Insubria.
- a.a. 2015/2016** Applied Ecology (6 CFU) Environmental and Natural Science (SAN Bachelor), Chemometrics and Ecotoxicological tests (part B - 4 CFU) Environmental Sciences (SA Master), University of Insubria.
- a.a. 2014/2015** Applied Ecology (6 CFU) Science of Environment and of Nature (SAN Bachelor), Chemometrics and Ecotoxicological tests (part B - 4 CFU) Environmental Sciences (SA Master), Ecotoxicology with laboratory (6 CFU) (Master in Biological Sciences), University of Insubria.
- a.a. 2013/2014** Applied Ecology (6 CFU) Science of Environment and of Nature (SAN Bachelor), University of Insubria - PhD course DISCA (3 CFU), University of Insubria.
- a.a. 2012/2013** Applied Ecology (6 CFU) Science of Environment and of Nature (SAN Bachelor), Ecotoxicology with laboratory (6 CFU) (Master in Biological Sciences), University of Insubria.
- a.a. 2011/2012** Laboratory of Ecology (3 CFU), Applied Ecology (6 CFU) Environmental Sciences (SA Master) and Science of Environment and of Nature (SAN Bachelor), University of Insubria.
- a.a. 2010/2011** Freshwater ecology (3 CFU), Biolimnology (3 CFU), Laboratory of Ecology (3 CFU), Environmental Sciences (SA Master and SA Bachelor), University of Insubria.
- a.a. 2009/2010** Freshwater ecology (3 CFU), Biolimnology (3 CFU), Laboratory of Ecology (3 CFU), Environmental Sciences (SA Master and SA Bachelor), and Ecology (Mod. B), Biological Sciences, University of Insubria.
- a.a. 2008/2009** Freshwater ecology (3 CFU), Biolimnology (3 CFU), Laboratory of Ecology (3 CFU), Environmental Sciences (SA Master and SA Bachelor), University of Insubria.
- a.a. 2007/2008** Freshwater ecology (3 CFU), Biolimnology (3 CFU), Laboratory of Ecology (3 CFU), Analysis of the pollutants of lakes (3CFU), Laboratory of Ecotoxicology (3 CFU) Environmental Sciences (SA Master and SA Bachelor), University of Insubria.
- a.a. 2006/2007** Freshwater ecology (3 CFU), Biolimnology (3 CFU), Laboratory of Ecology (3 CFU), Laboratory of Ecotoxicology (3 CFU) Environmental Sciences (SA Master and SA Bachelor), University of Insubria.
- a.a. 2005/2006** Freshwater ecology (3 CFU), Biolimnology (3 CFU), Laboratory of Ecotoxicology (3 CFU) Environmental Sciences (SA Master and SA Bachelor) and Evaluation and Environmental Control Sciences (Bachelor), University of Insubria.
- a.a. 2004/2005** Freshwater ecology (3 CFU) and Biolimnology (3 CFU), Laboratory of Ecotoxicology (3 CFU) Environmental Sciences (SA Master and SA Bachelor) and Evaluation and Environmental Control Sciences (Bachelor), University of Insubria.
- a.a. 2003/2004** Freshwater ecology (3 CFU), Biolimnology (3 CFU), Laboratory of Ecology (3 CFU) Environmental Sciences (SA Master and SA Bachelor) and Evaluation and Environmental Control Sciences (Bachelor), University of Insubria.

a.a. 2002/2003 Freshwater ecology (3 CFU), Biolimnology (3 CFU) Environmental Sciences (SA Master and SA Bachelor) and Evaluation and Environmental Control Sciences (Bachelor), University of Insubria.

Recent Course Evaluation

Please see pages 24-33 of this CV to read the most recent available evaluations (Attachment n. 2).

Degree Course Council (CCdS) Roles/Committee

2019-present AIQUA (*Assicurazione interna della Qualità*) Degree Courses Committee (Environmental Sciences and Science of Environment and of Nature courses).

From 04.2019 Availability to give lectures in English.

2018-present Tutor of students for their academic carrier (Science of Environment and Nature course).

Interviews for the admission at SA Master course.

Tutor of SAN Bachelor students (Science of Environment and of Nature).

Steering Committee.

Tutor of Bachelor and Master thesis and Doctoral supervising and Evaluation Committees

From 2006 Tutor ("Relatore") of 54 Bachelor Thesis and 22 Master Thesis.

From 2003 Member of Master and Bachelor Thesis Dissertation (as a component of the Evaluation Committee - from 30.03.2016, 44 Committees) in Environmental Sciences (SA Master), Science and Natural Environment (SAN Bachelor), Biological Sciences (Bachelor) and Linguistic and cultural Mediation (University of Insubria) and PhD Evaluation Committee (for the admission at the PhD course).

2021 Member of the PhD National Board IUSS Pavia.

2013-present Member of the PhD Board in Chemical and Environmental Science, University of Insubria, Como DISCA.

2007-2012 Member of the PhD Board in Environmental Sciences, University of Insubria, Como.

From 18.05.2022 Every three years - course for PhD IUSS Students on Environmental changes (1 CFU).

From 2013 Every three years - course for PhD Students on Evaluation, Assessment and Recovery of water environments (3 CFU).

Evaluator of PhD thesis for the final dissertation (at the University of Insubria and other Universities).

Tutor of PhD students in Environmental Sciences

- Silvia Quadroni - 20° cycle - "POPs bioaccumulation in aquatic trophic webs".
- Roberta Piscia - 22° cycle - "Zooplankton resting eggs in sediment cores: Lake Orta's pollution and recovery".
- Silvia Zaupa - 25° cycle - "Implementazione della Direttiva Quadro sulle Acque (2000/60/CE) attraverso l'utilizzo dei macroinvertebrati bentonici".
- Benedetta Ponti - 26° cycle - "Ecotoxicological assessment of freshwater ecosystems".
- Marianna Rusconi - 27° cycle - "Distribuzione e valutazione del rischio di inquinanti emergenti in bacini fluviali italiani".
- Emanuela Boggio - 27° cycle - "Un approccio funzionale per lo studio della biomagnificazione: analisi degli isotopi stabili per indagare il trasferimento dei contaminanti lungo le reti trofiche lacustri".

Tutor of PhD students in Chemical and Environmental Sciences

- Michela Mazzoni - 32° cycle - "Assessing bioaccumulation of chemicals in lacustrine food webs".
- Ginevra Boldrocchi - 32° cycle - "Ecological factors affecting the whale shark occurrence in Djibouti and presence of contaminants in the trophic web".
- Francesca Cappelli - 34° cycle - "Study of emerging pollutants distribution and effects in the water cycle using advanced screening methods".
- Arianna Bellasi - 34° cycle (to be discussed) - "Microplastics in freshwater environments".
- Benedetta Villa - LIFE project

- Mattia Iaia – Life project

Tutor of PhD students in Sustainable Development and Climate change, curriculum 6 (IUSS Pavia)

- Carlotta Santolini 37° cycle - present - “A natural archive: sediments cores to investigate the climate change effects (Como Lake)”.
- Jassica Lawrence 37° cycle – present – “Microplastics in freshwater zooplankton”

Tutor of Post Doc fellow

- Ginevra Boldrocchi (2021);
- Emanuele Fasola (2022/23).

Recruitment of a RTDa (Type A Fixed-Term Researcher)

01.01.2022 Thanks to a co-funding of One Ocean Foundation I obtained a position of RTDa (art. 24, comma 3 lettera a), L. n. 240/2010, D.M. 1062/2021, S.C. 05/C1 - Ecology – S.S.D. BIO/07 – Ecology, thematic “green” Towards an IMMA - Important Marine Mammal Area - recognition to preserve and mitigate the impacts on Caprera Canyon (Sardinia), hotspot of marine biodiversity. The RTDa started the research activity after the competition BR 124 DISUIT, University of Insubria, January 2022.

Service to the Profession (Third mission)

Editorial activities Editorial Board of *Environments* and *Toxics* journals - *now*.
CoEditor (Piscia, Bettinetti, Leoni and Manca) of the special issue “Zooplankton diversity and pelagic food webs, investigating present and past with different techniques”. *Water* <https://doi.org/10.3390/books978-3-03943-550-0> - 2021.

Reviewer activities Reviewer of research projects/post doc, Grants (MIUR, PRIN, Funding for Young Researchers - UniFI); Register of Expert Peer Reviewers for Italian Scientific Evaluation (REPRISE) - *From 2015*.
External peer reviewer for “Internal Grants and Projects”, Qatar University - *From 03.2022*.
Reviewer Water JPI Pilot Call 2013 Evaluation Board Panel Meeting 6-8 May 2014, Helsinki.
Reviewer of submitted articles of the following journals: *Science of the Total Environment*, *Chemosphere*, *Environmental Management*, *Environmental Toxicology*, *Environmental Science and Pollution Research*, *Ecotoxicology and Environmental Safety*, *Journal of Soil and Sediments*, *Marine Pollution*, *Environmental Pollution*, *Environments*, *Toxics*, *Water*, *Journal of Hazardous Materials*.

Evaluator of positions External evaluator of Master thesis, University of United Arab Emirates University (Evaluation commission November 04, 2022).
Qualification commission as HDR - Research Manager Dr Davide Vignati, Université de Lorraine LIEC - UFR SciFA Metz, F. - 07.07.2021.
Evaluator of Post Doc positions (University of Insubria), Grants (CNR), RTDa and b positions (University of Milan Bicocca; PoliMi) - *From 2014*.

Scientific societies SIte, AIOL, SETAC (*in the past*).

Organization of congresses/courses/events/exhibition Organizer with G. Boldrocchi of the Summer School “Ecology and marine aquatic ecotoxicology” for PhD students, Chemical and Environmental Science. One-week cruise on a catamaran in the Mediterranean Sea - 21-28.05.2022.
Organization of a workshop with stakeholders interested in environmental matters - 10.2020.
Organizer with G. De Agostini and M. Dea of the exhibition “La famiglia De Agostini: la storia della cartografia in Italia”, Monza - 20.05-2.08.2020.
Organizer of LAND for EXPO, Milan, “Water and wine” - 01.07.2015.
Organizer of “Percorsi d’acqua”, Lario Fiere, Erba (Como) - 14-15.11.2014.

Organizer (with other colleagues) of “Night of the research” (Notte dei Ricercatori), “*Il lago nascosto*”, University of Insubria, Como - 27.09.2013.

Organizer (with R. Casagrandi, P. Melià, M. Gatto and S. Galassi) of the XIII National Meeting of the Italian Society of Ecology (Como, Italy) - 2003.

Press Invited interviews/articles about the quality of lakes by La Provincia, a local newspaper.

Invited article on the Extraterrestrial supplement, Manifesto, Year I number 12, 2-3 - 08.02.2018.

Interviews “Dodici storie di scienza”, Dr Cecchi Paone. An interview about the scientific activities of the group (speaker Prof. G. Boldrocchi), University of Insubria - 02.2022

“Fuorifuoco, The new wave of journalism”. Local lab of journalism. Interview “L’ago della bilancia” about the quality state of the Lake Como in collaboration with Giulia Tringali – webdoc– www.fuorifuococomo.it/webdoc (available from February 2021) - 17.09.2020.

Within the environmental/law Movies Festival, S. Abbondio Como, “Darwin’s nightmare” movie, presentation and discussion - 07.02.2016.

Local dissemination Presentation of the volume *Annali DISUIT 2019-2021*, “Ecologia ed ecotossicologia acquatica”, S. Abbondio, Università degli Studi dell’Insubria, Como - 21.06.2022.

Dissemination activity of the sea Projects - From 09.2022.

“Spiagge di plastica”, Legambiente, Como - 07.05.2022

ECOLARIO “Le microplastiche del Lago di Como” - 02.02.2022.

Teatro Sociale di Como, “Acquaprofonda”, revision of the 2021 drama text to primary school children.

A series of lectures about “Environmental pollution”, Prana Yoga, (*on line*) – 2021.

“The presence of microplastics in lakes”, Museo Barca Lariana - 27.09.2020.

Educational guidance – Istituto Cobianchi Verbania - 31.01.2020.

“The island that exists” - From the washing machine to the glaciers passing through Lake Como - 18.09.2020.

Educational guidance – Liceo Frisi, Mosè Bianchi, Monza - 18.10.2019.

Green week, Milan in collaboration with the Barca Lariana Museum, “Blue water clear water” - 29.09.2019.

“Como city of water”, Intervention on the water quality of Lake Como, Legambiente - 19.05.2018.

Collaboration within the project “Un ponte tra laghi” for dissemination events (laboratory with students, speech at different levels of school attendance) at the “Casa del Lago (P. Iotti)”, Verbania Pallanza - From 2018.

Local Conference, “The environmental scientist in the third millennium: compared experiences”, University of Insubria - 12.10.2017.

Local conference “In ricordo di Walter Bonatti: alpinista esploratore uomo di cultura”, University of Insubria, Varese - 29.02.2012.

Collaboration for projects, Thesis (on Lake Como ecosystem), speech, events (e.g. Palude Brabbia 190 years since Volta’s death) with Proteus Association, Como (P. Iotti) for the protection and communication of the environment - from 2003.

Sporadic lectures Lecture at the Istituto Lombardo Accademia di Scienze e Lettere on the problem of microplastic in freshwater within a training course for secondary school professors - 19.02.2024

Lecture at the Istituto Lombardo Accademia di Scienze e Lettere on Emergent contaminants – 12.10.2023.

Lecture (40 hrs) at the Scientific Secondary School “Marcelline” Milan, within a project for the introduction of research at lower levels of education - 16.03.2022.

Lakes and risk management SCENARIO project MIUR project (Ministerial Decree 721 of 11/14/2018 art. 16 paragraph 2) - 03.05.2021.

Ecotoxicological Lectures at the University of Insubria; 12 Iraqi researchers within the intergovernmental project of the Ministry Italia-Iraq “Program of re-training and reorientation of Iraqi experts in the field of bio-chem technology for peaceful application”, with the funding support of the Italian Ministry of Foreign Affairs - 07.2010.

Training of post doc students for the assessment of brackish waters, Lake Natron, Tanzania, DELPHE Project - 03.2009.

8 hrs lecture on “Chironomids and ecotoxicity of sediments”, ARPA Piemonte, Turin - 2010.

“Freshwater ecology” (8 hrs), Master MAGESTA, University of Milan Bicocca - 2007-2008.

8 hrs lecture on “Chironomids and ecotoxicity of sediments”, Catholic University Milan, ARPA Lombardy - 2005.

Master “Environmental technicians”, University of Milan (FSE founding), “Ecology of phytoplankton” - 2000-2003.

ACADEMIC ROLES

Administrative roles Director of the Specialization School (Third level school) in “Assessment and Management of Chemical Risk” (University of Insubria, Como) - 27.12.2016-26.12.2019.

Vice-Director (Direttore Vicario) of the Department of Human Sciences, Innovation and Territory DISUIT, University of Insubria, Como - 21.01.2019-31.10.2021.

AIQUA (*Assicurazione interna della Qualità*) Degree Courses Committee – From 2019.

Member of FAR (*Fondo della Ricerca di Ateneo*) Macro Area 4 Commission at the University of Insubria - 2015-2018.

Ethic Committee, University of Insubria – From 16.06.2021.

Library of Medicine and Science Varese Committee, University of Insubria - From 2021.

Public Engagement Committee, University of Insubria - From 2019.

Participation as substitute at the University Research Committee, University of Insubria - 05.10.2022.

Scientific roles Coordinator of the “Science” Section of the Department of Human Sciences, Innovation and Territory DISUIT, University of Insubria, Como - 2022-2024.

Rector’s delegate of AQTS “Safeguarding and rehabilitation of Lake Varese” Regione Lombardia - From 2019.

Rector’s delegate for the assessment and environmental quality recovery of Lake Varese (techno-scientific commission, Osservatorio Tecnico Scientifico del Lago di Varese) - 2015-2018.

Component of the Climate Change Research Centre (CCRC) - 2020.

Member of the OECD group of experts for the evaluation of European guidelines in the field of ecotoxicology in collaboration with the Italian National Institute of Health - From 2011.

Contacts for References

Prof. **S. Galassi**, University of Milan, I, (retired), email: silvan.galassi@gmail.com;

Prof. **M. Gatto**, PoliMI, I (retired), email: marino.gatto@polimi.it;

Dr **P. Guilizzoni**, CNR IRSA Verbania Pallanza, I, email: piero.guilizzoni@irsa.cnr.it

Prof. **W. Hamza**, United Arab Emirates University, UAE, email: w.hamza@uaeu.ac.ae;

Prof. **N. Singhal**, University of Auckland, NZ, email: n.singhal@auckland.ac.nz;

Dr **D. Vignati**, CNRS - Université de Lorraine Metz, F, email: david-anselmo.vignati@univ-lorraine.fr.

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