

Language knowledge

Norwegian (Nynorsk)

Common EU Reference for Languages

Identification and isolation of microalgae

Biomass characterization (lipids, protein,

polysaccharides, pigments, organic C and N) with spectrophotometric methods,

GC-MS/MS and CHN analyser Ion chromatography for nutrient

Toxins determination LC-MS/MS Molecular techniques (DNA extraction, PCR, cloning, genome data analysis) Statistical data analysis and processing

and cyanobacteria; culturing techniques

Italian Native English Proficient (B2/C1) Finnish Basic (A1)

Basic (A1) Spanish

Basic (A1)

Technical skills

PAM fluorimetry

analyses (N, P, S)

Ecotoxicity bioassays

Research interests Microalgae and cyanobacteria · Toxins · Drinking water monitoring · Water treatment · Biotechnology applications · Microalgal cultivation · Bioactive compounds · Phytodepuration

Mara Simonazzi

03 Feb. 2020-

Post-doc (1st Mar 2024 - present) University of Bologna (Italy) Dep. Biological, Geological and Environmental Sciences (BiGEA), Via Sant'Alberto, 163, 48123, Ravenna (RA)



Place and date of birth

Rimini (Italy), 1st October 1992

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Education	
2019 – 2023	PhD in Earth, Life and Environmental Sciences (35th cycle), University of Bologna (Italy) [SSD BIO/01]. Toxic cyanobacteria in water intended for drinking
	purpose: improvement of cells and toxins' analyses and of treatments for their removal.
2014 - 2017	M.Sc. Marine Biology, University of Bologna, Italy. 110/110 cum laude
2011 - 2014	B.Sc. Biological Sciences , University of Urbino, Italy. 109/110
2006 – 2011	State Scientific Highschool, Liceo Scientifico G. Marconi Pesaro, Italy. 100/100
	Scientific production ————————————————————————————————————
H-index Co-authoring	4, total number of citations: 73 (Scopus, accessed on Nov. 20th, 2025) 9 publications peer-reviewed journals (6 as first-author, 3 as co-corresponding author)
Conferences	4 posters and 14 oral communications at national and international conferences
Research experience	
01 Mar 2024– PRESENT	Post-doc research fellow , University of Bologna, Italy. Project: Cyanotoxins oxidation by atmospheric plasma, a green technology for water decontamination – PLASMADETOX, 2022EFEEKR - CUP J53D23008640 006.
01 Mar 2023– 29 Feb. 2024	Post-doc research fellow , University of Bologna, Italy. Project: Microalgae as circular ingredients to reduce the carbon footprint in aquaculture feeds. CN Biodiversity Spoke2 Activity3 "Action 3.1 Circular feeds for carbon neutrality" – PNNR Project
01 Nov. 2021– 01 Mar. 2022	Research mobility , University of Helsinki, Finland. Discovery of new secondary metabolites from cyanobacteria through bioinformatics. Erasmus+ Mobility for Traineeship.
01 Nov. 2019–	PhD candidate, University of Bologna, Italy. Project: Distribution of cyanobacteria
01 Jan. 2023	and their toxins in Emilia Romagna freshwater reservoirs and evaluation of the effectiveness of drinking water treatments
06 May 2019–	Post-graduate scholarship, University of Bologna, Italy. Inter-laboratories
31 Oct. 2019	procedures for calibration of fluorometric tools used in microalgae and cyanobacteria detection in drinking water
11 Jun. 2018– 11 Dec. 2018	Post-graduate scholarship, University of Bologna, Italy. Spectrophotometric methods and fluorometric probes for cyanobacteria monitoring in drinking water
30 Nov. 2016– 14 Dec. 2017	Trainee graduating student , University of Bologna and Micoperi Blue Growth, Ravenna, Italy. (M.Sc. Thesis preparation)
18 Jan. 2016–	Trainee , Fjordforsk A/S, Norway. Evaluation of marine fish population decline along
18 Apr. 2016	Norwegian coasts due to local pollution. Erasmus+ Mobility for Traineeship.
Teaching activities	
2025	Adjunct professor (22 h), University of Bologna, Italy. "Experimental Marine
2010 2025	Laboratory (Module 2)" (M.Sc. students) Tacking tyton (20 h) University of Polegna Italy "Plant hislogy" (P.Sc. students)
2019 - 2025 $2018 - 2022$	Teaching tutor (20 h) , University of Bologna, Italy. "Plant biology" (B.Sc. students) (Co)-Supervisor of 11 M.Sc. and 5 B.Sc. thesis . University of Bologna
Third mission	
22 May 2024	Unione Bolognese Naturalisti, Bologna, Italy. Seminar (2 h). Lecture's title:

IT skills

Advance user:

Office © suite, Windows operating system, Mendeley Ltd, PAST 3.0

Basic knowledge:

UNIX shell command, R, OriginLab, ArcGIS/QGIS, MEGA, antiSMASH

Relevant publications

Simonazzi M. et al. 2025. Bioresource Technology, 435, 132869 https://doi.org/10.1016/j.biortech.202

Simonazzi M. et al. 2024. Chemosphere, 364, 142976 https://doi.org/10.1016/j.chemospher e.2024.142976

Simonazzi M. et al. 2024. Algal Res, 82, 103648

https://doi.org/10.1016/j.algal.2024.10 3648

Pezzolesi L. et al. 2023. Algal Res, 74, 103196

https://doi.org/10.1016/j.algal.2023.10 3196

Simonazzi M. et al. 2022. Int. J. Environ. Res. Public Health, 19(21), 14075 https://doi.org/10.3390/ijerph1921140

Simonazzi M. et al. 2021. International Journal of Biological Macromolecules, 191 (2021) 92-99 https://doi.org/10.1016/j.ijbiomac.202 1.09.054

Unione Bolognese Naturalisti, Bologna, Italy. Seminar (2 h). Lecture's title: 22 May 2024 Cianobatteri nelle acque destinate alla potabilizzazione: rischi e vantaggi per l'uomo.

Notte Europea dei Ricercatori, University of Bologna, Italy. Dissemination activities 2020 - presenton microalgal and cyanobacterial research; mixed audience (age 5-99)

13 Apr. 2021 Career counselling seminar for high school students (2 h), online. Lecture's title: From environment to industry: blue biotechnologies for the production of natural compounds from microorganisms. ISCOM-ER (Istituto per lo Sviluppo del Commercio e del Turismo dell'Emilia-Romagna, Ente di formazione di Confcommercio Emilia-Romagna)

_Training courses -

overview. Stazione Zoologica Anthon Dohrn, Naples, Italy 07 Feb. 2020 29 Jul. 2019-Determination Course of Freshwater and Terrestrial Cyanobacteria. University 02 Aug. 2019 of South Bohemia, Czech Republic

Theoretical-practical course of Multi-techniques for the study of the ecology of 19-22 phytoplankton. Società Italiana di Biologia Marina (SIBM), University of Naples Feb. 2018 Federico II, Italy

Metabarcoding and metagenomic data processing and analyses: a practical

Awards

2022 Best Talk Award. VIII International Plant Science Conference (IPSC). € 150 book voucher for Koeltz Botanical Books

2020 Best Poster Award, NaToxAq-Natural Toxins: Environmental Fate and Safe Water Supply. International conference 24th-25th September 2020 (online).