

PERSONAL INFORMATION **Margherita Barchiesi**

Ph.D student in Environmental and Hydraulic Engineering at Sapienza University of Rome

## WORK EXPERIENCE

09/2018-12/2018

**Internship at AcquaLatina**AcquaLatina Gestore del servizio idrico integrato - [INFORMAZIONI - Acqualatina S.p.A.](#)

- Internship at AcquaLatina, water utility of southern Lazio Region (ATO 4). Evaluation of alternatives for process units, research of water infiltration into sewers, experience of the everyday wastewater management issues

10/2017-03/2018

**Internship at GruppoCap**GruppoCap Gestore del servizio idrico integrato - [Homepage | CAP Group \(gruppocap.it\)](#)

- Internship at GruppoCAP, biggest monutility in Italy, water utility of the Provinces of Milan, Monza and Brianza, Pavia, Varese and Como. Use of BioWin program as support in decision making regarding analysis and optimization of wastewater treatment plants performances

## EDUCATION AND TRAINING

11/2019 – 01/2023

**Ph.D in Environmental and Hydraulic Engineering**

Department of Civil, Building and Environmental Engineering (DICEA), University of Rome “La Sapienza”

- Supervisor: Professor Agostina Chiavola, Co-Supervisor Professor Maria Rosaria Boni
- Topic: microplastics presence and fate in the urban water cycle with focus on Drinking Water Treatment Plants

03/2022 – 08/2022;  
02/2023 – 04/2023**Visiting researcher at Wageningen University and Research – Aquatic Ecology and Water Quality Management Group**

Topic: Study and evaluation of Microplastics volume estimate strategies; Microplastic settling behaviour

09/2014 – 12/2017

**Master of science in Environmental and Land Planning Engineering**Department of Civil and Environmental Engineering (DICA), Politecnico di Milano  
Final grade 108/110.

- Course of “Technologie di risanamento/Sanitary Engineering”
- Experimental Master Thesis with the Department of Civil and Environmental Engineering (DICA), Politecnico di Milano, in collaboration with Unimi Bicocca and GruppoCAP, from October 2016 to December 2017
- Thesis title: “Microalgae-based wastewater treatments: review and integration within a real context”

02/2016 – 08/2016

**Erasmus Programme**

University of Stuttgart

Principal Subjects: Hydrological modelling, measurements in the water cycle, transport planning and modelling

09/2010 – 12/ 2013

**Bachelor Degree in Environmental and Land Planning Engineering**

Department of Civil, Building and Environmental Engineering (DICEA), University of Rome “La Sapienza”

- Final mark 106/110
- Thesis title: Topography for extreme relocations

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	B2/C1
IELTS 7.5, September 2014					
German			B2		
DAF, March 2016					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
[Common European Framework of Reference for Languages](#)

Digital skills

- Microsoft Office Suite
- R software (intermediate)
- Quantum Gis (basic)
- Wastewater treatment plants simulator (BioWin - intermediate)
- Inkscape (basic)

Driving licence B

ADDITIONAL INFORMATION

Publications on international scientific journals

- Presence and fate of microplastics in the water sources: focus on the role of wastewater and drinking water treatment plants / Barchiesi, M.; Chiavola, A.; Di Marcantonio, C.; Boni, M. R.. - In: JOURNAL OF WATER PROCESS ENGINEERING. - ISSN 2214-7144. - (2020). [10.1016/j.jwpe.2020.101787]
- Décima, M.A.; Marzeddu, S.; Barchiesi, M.; Di Marcantonio, C.; Chiavola, A.; Boni, M.R. A Review on the Removal of Carbamazepine from Aqueous Solution by Using Activated Carbon and Biochar. *Sustainability* **2021**, *13*, 11760. <https://doi.org/10.3390/su132111760>

Conferences

- Oral presentation: Barchiesi M, Chiavola A., Di Marcantonio C., Boni M.R., Review on methods for Microplastics identification and quantification in wastewater and sludge SIDISA 2021 29/06-02/07/ 2021, Turin, Italy
- Participation to the workshop "Workshop for early career researchers: Best practices and expert insights" held in Athens, 13/06/2022-17/06/2022
- Oral presentation: Barchiesi M, Chiavola A., Di Marcantonio C., Boni M.R "μ-Raman for routine MPs analysis" at the International Conference μMED 25/09/22-28/09/22
- Oral presentation: Barchiesi M, Kooi M, Koelmans A.A "Adding Depth to Microplastics" at the international conference MICRO2022 – Plastic pollution from Macro to Nano 14/11/22-18/11/22
- Oral presentation: C. Di Marcantonio, M. Barchiesi, T. Calchetti, G. Cecchini, A. Chiavola, A. Filippi, A. Frugis, S. Leoni, M. Spizzirri, M. R. Boni, 2022. Environmental Risk Assessment associate to Organic Micropollutants in the final effluent of Urban Wastewater Treatment Plants, 7th International Conference ECOLOGICAL & ENVIRONMENTAL CHEMISTRY, March 3-4, 2022, Chisinau, Republic of Moldova

Reviewer of international scientific journals

- JOURNAL OF WATER PROCESS ENGINEERING
- JOURNAL OF ENVIRONMENTAL HEALTH SCIENCE AND ENGINEERING

Acknowledgments

- Winner of the Wimek scholarship for visiting researchers by the Wageningen University and Research (Dec 2022, for the three months visiting period 02/2023-04/2023)

Data 04/04/2023

