

PERSONAL INFORMATION

Marta Maria Rossi

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WORKING EXPERIENCE

From November 2017

To the current date

Chemical Engineering – PhD. Student (3rd year)

At Sapienza University of Rome, Rome, Italy

- Topic: Innovative materials in contaminated groundwater remediation technologies: characterization, reactivity and hypothesis of technological implementation.
- Subject: The main objective of the project is therefore the development of "reactive materials" and their characterisation for use in the reclamation of groundwater contaminated by a Chlorinated Solvents and heavy metals in different plant configurations, in abiotic and biotic conditions.
- Main Activities:
 - Morphological characterization of adsorbent materials and study of adsorbent capacities: SEM, BET, batch tests and adsorption fixed-bed columns, experimental set-up for the removal of chlorinated solvents (Perchloroethylene, Trichloroethylene) from an aqueous matrix. Lab scale and scale-up of processes.
 - Study and management of anaerobic biological processes involved, specifically, in reductive dechlorination.
 - Dealing with real remediation context and preliminary trials, like feasibility studies (field experience, observe surveys for the characterization of the site and carry out monitoring samples).
 - Management, maintenance and analysis of instruments: GC Perkin-Elmer 8410-FID; Master GC fast gas chromatography FID and TCD; GC 8866 Agilent; UV-1800 Shimadzu spectrometer; TOC-V CSN Schimadzu Total Organic Carbon Analyzer; Dionex ICS-1000 Ion Chromatography system.

EDUCATION AND TRAINING

From October 2015

to October 2017

Master degree in Industrial Chemistry [LM (DM 270/04)-ORDIN. 2010] classe LM-71

At Sapienza University of Rome, Rome, Italy

- Thesis title: Polyhydroxyalkanoates from mixed microbial cultures: study of the accumulation phase
- Subject: management of a Sequencing Batch Reactor (SBR) and batch reactor in laboratory scale for PHA production from mixed microbial cultures. Sampling and laboratory analysis for reactor monitoring and polymer's study.
- Laboratory instrumentation: GC Perkin-Elmer 8410-FID; Master GC fast gas chromatography FID/TCD; UV-1800 Shimadzu spectrometer; TOC-V CSN Schimadzu Total Organic Carbon Analyzer; Dionex ICS-1000 Ion Chromatography system.

From September 2012
to October 2015

Bachelor degree in Industrial Chemistry

At Sapienza University of Rome, Rome, Italy

- Thesis title: Synthesis of dihydroasparagusic acid's superior homologues
- Subject: organic synthesis, extraction, purification, separation of intermediates through chromatography column, use of NMR techniques and mass spectrometry.

PERSONAL SKILLS

Mother tongue Italian

Other language	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
French	B1	B1	B1	B1	B1
Certificate DELF B1					

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

Computer skills

Microsoft Office™ tools, Microsoft Windows, SigmaPlot.

ADDITIONAL INFORMATION

Publications	Feb.2020	"Immobilizzazione di Tricloroetilene (TCE) su Biochar (BC) a sostegno della Declorazione Biologica Riduttiva (BRD)"/ Rossi, Marta Maria; Amanat, Neda; Dell'Armi, Edoardo; Petrangeli Papini, Marco. - (2020). Conference Book SiCon2020 "Siti contaminati. Esperienze negli interventi di risanamento", Rome. ISBN 88-7850-023-2
	Feb.2020	"Polidrossialcanoati (PHA) da Colture Microbiche Miste (MMC) a Supporto alla Declorazione Biologica Riduttiva" / Amanat, Neda; Rossi, Marta Maria; Andreini, Fabiano; Majone, Mauro; Petrangeli Papini, Marco. - (2020). Conference Book SiCon 2020 "Siti Contaminati. Esperienze negli interventi di risanamento", Rome. ISBN 88-7850-023-2
	Sep. 2020	Journal of Environmental Chemical Engineering "PHA-BASED MATERIALS AS SLOW-RELEASE ELECTRON DONORS FOR ENVIRONMENTAL APPLICATIONS" , Neda Amanat; Bruna Matturro; Marta Maria Rossi; Francesco Valentino; Marianna Villano, Marco Petrangeli Papini (SUBMITTED)
	Jun.2018	"Adsorption of chlorinated solvents and heavy metals onto low-cost materials (biochars) in groundwater remediation". Rossi, Marta M.; Amanat, Neda; Hady, Angela; Marconi, Elisabetta; Astolfi, Maria Luisa; Silvani, Ludovica; PETRANGELI PAPINI, Marco. ISEB2018-EBCVII eBook ISBN 978-618-81537-6-9- (2018).
	Jun.2018	"Strategies for advanced PHA production in a sequencing batch reactor operated with uncoupled carbon and nitrogen feeding". Lorini, Laura; Valentino, Francesco; Rossi, Marta M.; Majone, Mauro; Villano, Marianna. ISEB2018-EBCVII eBook ISBN 978-618-81537-6-9- (2018).
Conference	Feb.2020	SiCon 2020, Siti contaminati. Esperienze negli interventi di risanamento, Oral presentation, Rome, Italy- Oral presentation
	Nov.2019	Ecomondo, Rimini, Italy
	May 2019	AquaConSoil, Antwerp, Belgium- Posters presentations
	Jun. 2019	Convegno giovani ricercatori, Rome, Italy- Oral presentation,
	Jul. 2019	GRICU Gruppo Ingegneria Chimica dell'Università, Mondello, Italia-Poster presentation
	Sep.2019	RemTech Expo 2019, Ferrara, Italy
	Jun.2018	7th European Bioremediation Conference (EBC-VII) and the 11th International Society for Environmental Biotechnology conference (ISEB 2018), Chania, Greece- Posters presentation
	Sep.2018	RemTech Expo 2018, Ferrara, Italy

Courses, Workshop, Seminars

- Apr. 2020** **Online courses:** Part 1: Optimization and Monitoring for Remediation of Chlorinated and Related Compounds and Part 2: Optimization and Monitoring for Remediation of Chlorinated and Related Compounds, David Allen organizer.
- Apr. 2020** **Webinar** Trattamento di elevate concentrazioni di idrocarburi: casi di studio di adsorbimento in situ, Regenesis.
- Jun. 2019** **Scuola GRICU** Gruppo Ingegneria Chimica dell'Università, Palermo, Italy
- May 2019** **Workshop** "Sicurezza sul lavoro" by Magneti Marelli, Bologna, Italy
- Jan. 2019** **AIDIC Conference**, The sustainable society of the future- The rule of Chemical Engineering, Rome, Italy
- Sep. 2018** **RemTech National School 2018** "Modello Concettuale a supporto della progettazione degli interventi di bonifica: dalla caratterizzazione ad Alta Risoluzione alla rappresentazione con Realtà Virtuale", Ferrara, Italy
- May.2018** On the Road from Wastewater treatment to a PHA production factory, Alan Werker, adjunct Professor, La Sapienza
- Feb. 2018** "How to effectively manage a contaminated site and benefit from it"- Arcadis Italia (Milano).
- Feb. 2018** **Doctoral courses:** "methods of research"; "Fundamentals topics in chemical engineering"; "chemical, biochemical and environmental processes", La Sapienza
- Dec.2017** Biofuels: a new tool for the sustainable development in the transport sector or, an ecological whim, La Sapienza
- Dec.2017** Biomass to liquid and gas biofuels: challenges and I&D advances, La Sapienza

Other Skills

I'm a Rescue Diver PADI and a First Emergency Responder

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n.196
"codice in materia di protezione dei dati personali"