

## PERSONAL INFORMATION

## Simonetti Federica



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Gender Female | Date of birth 25 October 1995 | Nationality Italian

## PERSONAL PROFILE

Personal description *"Numquam inveniatur si contenti fuerimus inventis" - Seneca*  
"Nothing would ever be discovered if we are satisfied with things already discovered"

## EDUCATION AND TRAINING

- November 2021 **PhD student in Pharmaceutical Sciences at La Sapienza University**  
In October 2021, I won a PhD scholarship in Pharmaceutical Sciences at La Sapienza University and actually, I am carrying out my doctorate at the labs of the Superior Institute of Health.
- August 2021 **Drinking Water Treatment**  
A course of study offered by DelftX, an online learning initiative of Delft University of Technology
- October 2020-October 2021 **Teaching of mathematics and science**  
Teaching of mathematics and science at the secondary school
- January-October 2020 **2<sup>nd</sup> Level master's degree in Forensic Analytical Methodologies**  
La Sapienza-University of Rome, Italy, vote 110/110  
During this master I deepened all innovative analytical methodologies applied to forensic and bioanalytical fields, including analysis on biological samples in conventional and unconventional matrices, drugs, gun powders, explosives, artworks, foods and urban waters checking.
- November 2019 **Qualification for the profession of chemist**
- October 2019 **Stay in Boston (USA) in EF college**  
EF Boston College, Massachusetts, USA  
EF Language Certification: C1 level
- September 2019 **24 CFU for the teaching of Chemistry**
- 2017–2019 **Master Degree in Chemical Science - Thesis Title: Characterization of biological tissues by vibrational spectroscopic techniques** LM-54  
University of Perugia Italy, 23/9/2019 (pre-Covid), 110/110 cum Laude

On September twenty-third, 2019, at the Department of Chemistry, Biology and Biotechnology of the University of Perugia I achieved a master's degree in Chemical Sciences, Physical Chemistry curriculum, with vote **110 /110 cum Laude**.

In the thesis I dealt with the characterization of two tissues of mouse, kidney and cardiac tissues, using Raman microspectroscopy and FTIR microspectroscopy. In the training internship I acquired excellent mastery of the two spectroscopic techniques and notions of histology and medical biochemistry.

In July 2019, two posters relating to this thesis work were presented at the 12th BSA 10th ICBP-IUPAP Biophysics Congress, Madrid (ES), entitled:

- FTIR microscopy on bone and Cartilage Tissues, authors: N.Tombolesi, A.Morresi, M.Paoloantoni, F.Simonetti and P.Sassi
- FTIR imaging of heart and kidney tissues, authors: N.Tombolesi, R.Altara, F.Simonetti, A.Morresi, F.Rosi, L.Cartechini and P.Sassi.

During the course, I also completed an internship of 3 CFU at the IOM headquarters in the Department of Physics, where I acquired knowledges relative to Brillouin spectroscopy and different types of Laser.

#### 2014–2017 Bachelor in Chemistry - Thesis Title: Effect of surfactants on TiO<sub>2</sub>-mediated photodegradation of Bromothymol Blue L-27

Achieved at the Department of Chemistry, Biology and Biotechnology of Perugia with vote **110 / 110 cum Laude**.

- Examinations of physical chemistry, organic chemistry, general chemistry, and analytical chemistry according to the general study plan of the University of Perugia based on the green- chemistry. During the studies, I attended the various chemical laboratories acquiring adequate knowledge of the different organic and chemical-physical experimental techniques: spectrophotometric, chromatographic and electrochemical techniques.
- An experimental thesis written in English in the green chemistry field. During the traineeship, I studied the photodegradation of organic dyes with heterogeneous catalysis in the waste water. I gained good knowledge of general chemistry, spectrophotometry, colorimetry, and catalysis. I also acquired some knowledge related to the composition of urban water and wastewater purification systems.

#### 2009–2014 Scientific maturity

Achieved at the A. Orsini high school in Ascoli Piceno (AP) with vote 95/100

#### PERSONAL SKILLS

Mother tongue Italian

#### Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
EF certification of English acquired before attending a course in Boston USA, October 2019					
Spanish	B1	B1	B1	B1	B1
French	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user  
[Common European Framework of Reference for Languages](http://www.cedefop.europa.eu)

- Soft skills**
- *Communication skills* I have good communication skills acquired during my years of study.
  - *Team work* I have worked in various types of teams from research teams to national league hockey.
  - *Mediating skills* I work on the borders between young people, trainers and researchers.
  - *Intercultural skills* I am experienced at working in a European dimension such as collaborations with other European research teams. Moreover I lived in USA for two months.
  - *problem solving* I have good problem solving skills acquired during my years of study. I came across several kind of mathematical, statistical, administrative problems and in each occasion I should find a fast and smart solution.

- Computer skills**
- Competent with most Microsoft Office programmes;
  - Experience with software for data analysis like Origin;
  - Competent with basic programming: experience with the **programming language Fortran 77, MATLAB and C++**;
  - Good knowledge of the *Machine learning and statistics Toolbox of MATLAB* which provides functions and apps to describe, analyze, and model data and ODE toolbox;
  - Good Knowledge of **LATEX**;

- Certifications**
- Verified certificate for the course Drinking Water Treatment of Delft University of Technology in 2021;
  - Certificates of attendance of MATLAB courses acquired at the University of Rome in 2020;
  - Certification of English C1 on the EF Boston campus in 2019 (USA);
  - European Computer License (ECDL Full Standard) and English Language Certification (FCE) with achieving B2 level in 2014.

**Driving licence** B

#### PUBLICATIONS

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- [1] Raimondo Germani, Marzia Bini, Simona Fantacci, Federica Simonetti, Matteo Tiecco, Eleonora Vaioli, and Tiziana Del Giacco. "Influence of surfactants in improving degradation of polluting dyes photocatalyzed by TiO<sub>2</sub> in aqueous dispersion". In: *Journal of Photochemistry and Photobiology A: Chemistry* (2021), p. 113342.