

PERSONAL INFORMATION

Federica Zennaro



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WORK EXPERIENCES

13/09/2018 - now

PhD Student at Ca' Foscari University of Venice

Science and Management of Climate Change

01/07/2019 – 05/08/2019
& 01/07/2018 – 25/07/2018

Microplastics and microbiological sampling technician at Legambiente Onlus, Italy

Sampling of bathing lake waters and microbiological analysis.

01/10/2018 – 30/06/2019

Visiting Student at the Euro-Mediterranean Centre on Climate Change -CMCC@Ca'Foscari

Research activities in the field of climate change risk assessment with specific focus on the application of machine learning methods for multi-risk appraisal

04/12/2018 – 30/06/2019

High school professor at Istituto Tecnico Paritario per il Turismo Marinelli Fonte, Venice

Earth Science, Biology and Chemistry professor.

10/10/2016–10/10/2017

Italian Civil Service. Humanitarian interventions on crisis areas – Lima, Perù

FOCSIV – Federazione degli Organismi Cristiani Servizio Internazionale Volontario in partnership with CEAS – Comision Episcopal de Accion Social.

- Project Cycle Management; climate change adaptation; environment and health; social-environmental conflict management; indigenous community rights protections.

01/11/2015–30/04/2016

Researcher and consulting employee - Aghetera ambiente e sviluppo S.r.l.:

Life Circle Analysis (LCA) for social, environmental and economic improvement.

01/04/2014–20/12/2014

Researcher- University Internship

Department of Environmental Sciences, Informatics and Statistics, Ca' Foscari University, and Euro-Mediterranean Centre on Climate Change (CMCC).

Development and application of a methodological approach for hydrological drought risk assessment for the irrigation sector under climate change. Research activities were carried out in the frame of the European ORIENGATE project (www.orientgateproject.org).

EDUCATIONAL
QUALIFICATIONS

01/10/2012–15/04/2015 **Master Degree in Environmental Science** - Ca' Foscari University, Venice 107/110

20/09/2013–29/03/2014 **Abroad Education: Erasmus at Cádiz University (Cádiz, Spain)**

01/09/2009–01/09/2012 **Bachelor Degree in Environmental Science** - Ca' Foscari University, Venice IT 97/110

Thesis: "The practices of farming of bluefin tuna in the Mediterranean".

Professor Pastres R.

2004 - 2009 **Scientific high school G.B. Benedetti, Venice, IT**

Courses:

10/09/2015–26/11/2015

Carbon Management: specialization course on Carbon Footprint and Life Cycle Analysis (LCA) (Garanzia Giovani with ECIPA).

PERSONAL SKILLS

Mother Language Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Lecture	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
Business English course (148 hours).					
Spanish	C1	C1	C1	C1	B2

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

PROFESSIONAL SKILLS

- **Environmental Risk Assessment.**
- **PCM - Project Cycle Management.**
- Microplastic and microbiologic **sampling**. Ability to use tools of biological and chemical laboratory.
- Knowledge of **SimaPro** and **EasyWaste** (LCA waste software).
- Ability to analyze environmental systems and processes in the perspective of sustainable development and environmental protection (e.g. IFF (River Functional Index) and IBE (Extended Biotic Index)), and the promotion of environmental quality.

INFORMATIC SKILLS

- Excellent knowledge of **Microsoft Office tools** (Access, Excel, PowerPoint, Word).
- Good knowledge of **GIS** - GEOGRAPHIC INFORMATION SYSTEM.
- Good knowledge of **R**.
- Basic skills with **video and photo editing** programs (Photoshop, Pinnacle Studio, Nero).

COMMUNICATION SKILLS

- Excellent **verbal and written communication** skills, both in an office environment and with external stakeholders: thanks to the work done in Peru supporting an NGO in the involvement of local communities, and to my current job as science professor and tennis instructor.

ORGANISATIONAL /

- Excellent organizational and prioritization skills. As Legambiente volunteer I've **organized**

events and conferences aimed to environmental sustainability communication.

MANAGERIAL SKILLS

- Strong sense of **determination** derived from sport, in particular from tennis for which years of tournaments at the national level (second category) have allowed me to develop a good competitive spirit and humility, and become aware of the importance of **focusing efforts on targeted goals**.

- **Team work:** I have worked in various types of teams from research teams to tennis teams. For several years I coached tennis teams. I'm also the coach at my team of series C at Championship Affiliate of the Italian Tennis Federation 2006.

ADDITIONAL SKILLS

- The experience of the International Civil Service has strengthened some of my expertise in the environmental field and has made me passionate about the world of **human rights**. Thanks to this experience, I've also deepened knowledge of **development cooperation**.

- Intercultural skills: The experiences of study (Spain) and work (Perù) abroad have allowed me to live in a multicultural environment, and touch the spirit of human solidarity, as well as to increase my **ability to adapt and face** different and often adverse, situations.

Driving licence

B

LIST OF PUBLICATIONS

Peer reviewed journals

- P. Ronco, F. Zennaro, S. Torresan, A. Critto, M. Santini, A. Trabucco, A.L. Zollo, G. Galluccio, A. Marcomini, *A risk assessment framework for irrigated agriculture under climate change*, *Advances in Water Resources*, 110, 562–578.

(<https://doi.org/10.1016/j.advwatres.2017.08.003>)

Papers in preparation

- F. Zennaro, E. Furlan, S. Torresan, C. Simeoni, A. Critto, A. Marcomini, *Machine Learning methods for climate change risk assessment and adaptation planning: a comparative review*.

Proceedings of National and International conferences

- Simeoni C., Furlan E., Torresan, Zennaro, Critto, Sperotto A, Marcomini A., *Climate change exposure and vulnerability assessment in the metropolitan city of Venice*, EuroLag 9 Congress, Venice, Italy, 20-24 January 2020

- **Zennaro F.**, Furlan E., Torresan S., Simeoni C., Critto A., Marcomini A., *Exploring Machine Learning potential for climate change risk assessment and adaptation planning*, CLIMRISK 2019 – 7th SISC Annual Conference, Trento, Italy, 23-25 October 2019.

- A. Critto, S. Torresan, P. Ronco, F. Zennaro, M. Santini, A. Trabucco, A. Marcomini *“Assessing hydrological drought risk for the irrigation sector in future climate scenarios: lessons learned from the Apulia case study (Italy)*, EGU General Assembly 2016, Wien, Austria.

Workshops participation

- 3rd - 5th December 2018, Venice, Italy, **Inquimus**. Methods and tools to assess multi-hazard risk, vulnerability and resilience.

- 28th April – 1st May 2017, Tarapoto, Perù, **PAN-AMAZONIAN FORUM**. Dialogues and debates on Amazon protection.

- 15th -16th February 2020, Vicenza, Italy, **Copernicus Hackathon Programme**. Stimulate the generation of new business ideas based on Copernicus data and services.

February, 2019