

Personal information



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Professional experience

01/03/2019-ongoing **Post-doc Research Fellow**

CMCC@Ca'Foscari-Centro Euro-Mediterraneo sui Cambiamenti Climatici-Università Ca' Foscari Venezia, Italy

Analysis of climate change impacts on transitional systems:

- Assessment of multiple climate change related hazards in the Venice Lagoon and its metropolitan city;
- Analysis of coastal resilience to extreme events.

01/03/2018-28/02/2019 **Post-doc Research Fellow**

Fondazione CENTRO EURO- MEDITERRANEO SUI CAMBIAMENTI CLIMATICI (CMCC), Lecce, Italy.

Analysis of climate change impacts on water quality:

- Analysis of climate change and land use changes interaction and assessment of cascading impacts on ecosystem services (FWES) and human well-being;
- Use of complex system analysis tools for scenario analysis;
- Identification of best management practices and nature-based solution for drinking water security under drought conditions.

01/09/2014-28/02/2018 **Junior Research Fellow**

Fondazione CENTRO EURO- MEDITERRANEO SUI CAMBIAMENTI CLIMATICI (CMCC), Lecce, Italy.

Research activities on climate change impact assessment associated with:

- the application of multi-risk assessment approaches for the estimation, management and communication of climate change impacts;
- the development of probabilistic risk assessment procedures (i.e. Bayesian Networks) to assess the interacting effect of climate change and land use on water quality attributes.

01/01/2014-30/08/2014 **Junior Research Fellow**

Ca' Foscari University of Venice, Calle Larga S. Marta, 2137 – 30123 Venice, Italy.

Research activities on climate change risk and vulnerability assessment associated with the development of:

- Regional Risk Assessment (RRA) methodology for the assessment of risks related to climate change at the regional/local scale in a climate-service perspective;
- indicators and indexes for the assessment of climate change impacts, vulnerabilities and risks to transfer information about climate change impacts towards different sectors.

01/06/2009-30/09/2011 Environmental Educator

Cooperativa Ecotopia, Sant'Ulderico del Tretto 7, 36015, Schio, Vicenza, Italy.

- Collaboration in the organization of lessons and course of environmental education;
- Organization and supervising of summer camps on environmental and sustainability issues for children;
- Environmental guide.

Education and training

01/09/2014–01/02/2018 PhD Programme in Science and Management of Climate Change

Cà Foscari University of Venice, Department of Economis, Fondamenta San Giobbe, Cannaregio 873, – 30123 Venice, Italy.

Application of probabilistic risk assessment procedure base on Bayesian Networks to assess the interacting effect of climate change and land use on water quality attributes in a multi-risk perspective;

PhD Thesis: “A Bayesian Networks approach for the integrated assessment of climate change impacts on water quality”;

Supervisor: Prof. Andrea Critto.

01/07/2016-30/09/2016 Visiting Researcher

Research Institute of Water and Environmental Engineering and (IIAMA) - Universitat Politècnica de València, Spain;

Supervisor: Prof. Manuel Pulido-Velazquez.

01/06/2016- 30/06/2016 Visiting Researcher

High Polytechnic School of Engineering, University of Salamanca, (Spain);

Supervisor: Prof. Jose Luis Molina.

21/07/2014–12/09/2014 Visiting Researcher

Chinese Academy of Environmental Science, Beijing Normal University, China;

Analyse the inter-linkages of disaster, risk, and development. Understand the dynamics and characteristics of disaster and risk in a changing world, with special focus on China;

Supervisor: Dr. Wei Xu

01/09/2010–30/10/2013 Master Degree in Environmental Sciences-Integrated Coastal Zone Management

Cà Foscari University of Venice, Calle Larga S. Marta, 2137 – 30123 Venice, Italy.

Integrated coastal zone management: socioeconomic and biologic aspects, coastal zone morphology and geology, climatology, climate change impacts and management, environmental economy, regional risk assessment, environmental economy and policy.

Master thesis: "Development of climate services related to pluvial flood impacts under climate change scenarios in the North Adriatic coast". Grade: 110/110

Supervisor: Prof. Antonio Marcomini

Main activities:

- Application of a Regional Risk Assessment methodology and implementation of indexes and indicators for the analysis of climate change impacts on coastal zone within the F7 CLIM-RUN Project.
- Development of hazard, vulnerability and risk maps for the evaluation of pluvial flood risk by means of GIS-based tools;
- Dissemination of climate risk and adaptation services to the local stakeholders of the North Adriatic coastal zone.

01/09/ 2011-30/04/2012 Exchange study programm LLP/Erasmus in Environmental Management

Hallam Sheffield University, Howard Street, Sheffield S1 1WB, United Kingdom.

Environmental perspectives and policy development, Environmental management system (ISO 14001, EMAS, BS 8555), International water management, Landscape and wildlife management, English study skills, English grammar and pronunciation.

01/09/2006-04/04/2010 Bachelor in environmental sciences

Cà Foscari University of Venice, Calle Larga S. Marta, 2137 – 30123 Venice, Italy.

Environmental chemistry, environmental law, ISO / EMAS, environmental management systems, planning, environmental ecology, biology, microbiology, organic and inorganic chemistry, ecology, environmental communication, LCA.

Bachelor thesis: "Perception of environmental issues: the case of Pedemontana Vicentina's young. Grade 103/110

Supervisor: Prof. Monica Camuffo

Teaching activities

May 2017 Instructor for the training of the software DESYCO during the "Risk assessment and Decision Support Systems for environmental impacts related to climate change" course (Prof. Andrea Critto), PhD program in Science and Management of Climate Change, Cà Foscari University (Venice);

April 2016 Seminars on multi-risk procedures for climate change impact assessment at the course "Environmental impacts related to climate change" (Prof. Andrea Critto), Master Program in Global Changes, Ca' Foscari University (Venice).

Conferences committee

July 2018 Member of the Organization Committee of the INQUIMUS Workshop "Methods and tools to assess multi-hazard risk, vulnerability and resilience" which will take place on 3rd-5th December 2018 in Venice;

May 2016 Member of the Organization Committee of the side events "Learning across communities of practice: risk assessment for disaster risk reduction and climate risk management" at the 2017 Understanding Risk Forum 16-20th May 2016, Venice.

Memberships

2015-2016 Member, European Geoscience Union (EGU);

2014-2016 Member, Italian Society for Climate Sciences (SISC).

Peer reviewed scientific journals

- **Sperotto A.**, Molina J.-L., Torresan, S., Critto A., Pulido Velazques M., Marcomini A., A Bayesian Networks approach for the assessment of climate change impacts on nutrients loadings. *Environmental Science and Policy*, vol.100, pp. 21-36 (ISSN 1462-9011);
- Jaroslav M., Torresan S., Bosello F., Mistry M., Amadio M., Marzi S., Furlan E., **Sperotto A.**, 2018. Climate risk index for Italy. *Phil. Trans. R. Soc. A*), vol. 376, pp. 20170305 (ISSN 1364-503X);
- **Sperotto A.**, Molina J.-L., Torresan, S., Critto A., Marcomini A. ,2017. Reviewing Bayesian Networks potentials for climate change impacts assessment and management: A multi-risk perspective. *Journal of Environmental Management*, vol. 202, pp. 320–331, (ISSN 0301-4797);
- **Sperotto A.**, Torresan S., Gallina V., Coppola E., Critto A., Marcomini A., 2016. A multi-disciplinary approach to evaluate pluvial floods risk under changing climate: The case study of the municipality of Venice (Italy) in *Science of The Total Environment*, vol. 562, pp. 1031-1043 (ISSN 0048-9697);
- Gallina V., Torresan S.; Critto A., **Sperotto A.**, Glade T., Marcomini A., 2016. A review of multi-risk methodologies for natural hazards: Consequences and challenges for a climate change impact assessment in *Journal of Environmental Management*, vol. 168, pp. 123-32-132 (ISSN 0301-4797).

Oral presentations at international conferences

- **Sperotto A.**, Torresan S., Molina J.L., Pulido Velazquez M., Critto A., Marcomini A.: Assessing water quality responses under climate change. Oral presentation at the ECCA 2017, Glasgow (UK), 05th-09th June 2017;
- **Sperotto A.**, Torresan S., Molina J.L., Pulido-Velazquez M., Critto A., Marcomini A.: Multi-risk assessment of climate and land use changes on water resources: A Bayesian Network approach. Oral presentation at LuWQ2017 Conference, The Hague (NL), 28thMay-2nd June 2017;
- Gallina V., Torresan S., Critto A., **Sperotto A.**, Glade T., Marcomini A.: Multi-risk evaluation of climate change impacts in coastal zones. Oral presentation at the Twelfth International Conference on the Mediterranean Coastal Environment-MEDCOAST 2015, Varna, Bulgaria, 06-10 October 2015;
- **Sperotto A.**, Torresan S., Gallina V., Coppola E., Critto A., Marcomini A.: A multi-disciplinary approach to evaluate vulnerability and risks of pluvial floods under changing climate: the case study of the municipality of Venice (Italy). Oral presentation at the European Geosciences Union General Assembly 2015, Vienna Austria, 12th-17th April 2015;
- **Sperotto A.**, Torresan S., Gallina V., Coppola E., Critto A., Marcomini A.: Development of climate services related to pluvial flood risk in the North Adriatic coast. Oral presentation at the Summer School in Disaster Risk Reduction in a Changing World, 28th July- 11th August 2014, Beijing Normal University (China);
- Torresan S., **Sperotto A.**, Gallina V., Critto A., Furlan E., Marcomini A.: Developing adaptation services for pluvial flood risks under changing climate: a participatory approach applied in the North Adriatic coast. Oral presentation at the CIRCLE 2 Conference on Adaptation Frontiers, Lisboa (Portugal), 10-12th March 2014;
- Torresan S., **Sperotto A.**, Giannini, V., Gallina V., Critto A., Marcomini A.: Developing climate and risk services in the North Adriatic coastal zones. Oral presentation at the ECLISE/CLIMRUN Synthesis Workshop 2014 “Enabling Climate Information Services for Europe”, Bruxelles, 10-11th February 2014;
- Torresan S., Gallina V., **Sperotto A.**, Furlan E., Critto A., Marcomini A.: Climate risk and adaptation services in coastal zones: the case study of the North Adriatic coast. Oral presentation at the Third International Conference on Climate Services (ICCS3), Montego Bay (Jamaica), 2-6th December 2013.

Working reports

- Torresan S., **Sperotto A.**, Giannini V., Gallina V., Critto A., Marcomini A.,2014. Deliverable 8.4 Cross-cutting conclusions. Integrated case study: Veneto and Friuli Venezia Giulia, Northern Adriatic Sea, Italy. CLIM-RUN – Project;
- Isigonis P., Torresan S., **Sperotto A.**, Zabeo A. and Critto A., Marcomini A., 2013. Indicators and indices of vulnerability, risk and environmental impact, relevant for different systems and sectors of society. GEMINA Project.

Extended abstracts and conference proceedings

- Gallina V., Torresan S., Critto A., Zabeo A., **Sperotto A.**, Glade T., Marcomini A., Multi-risk evaluation of climate change impacts in coastal zones, 2015. In Ozhan E. (Editor), 2015, Proceedings of the Twelfth International Conference on the Mediterranean Coastal Environment, MEDCOAST 2015, 06-10 October 2015, Varna, Bulgaria, MEDCOAST, Mediterranean Coastal Foundation, Dalyan, Mugla, Turkey, vol. 2, 527-530 p., 978-605-85652-5-8;
- Torresan S., **Sperotto A.**, Gallina V., Furlan E., Critto A., Marcomini A., Developing climate risk and adaptation services in coastal zones: an integrated bottom-up approach applied in the North Adriatic coast. Submitted on 20 May 2014 to the 2nd SISC (Italian Society for Climate Sciences) annual conference on “Climate Change: Scenarios, Impacts and Policy”.

Contribution in collaborative research projects

- **BRIDGE**, Building resilience of society to natural disasters: improved methodologies and solutions for Italy and US, focusing on the provision of tools to assess resilience of coastal communities to natural disasters
- **VENEZIA 2021**, Research programme for a “regulated” Lagoon, aimed at providing the state of the art of available knowledge on risk and vulnerabilities of the Venice Lagoon to global changes;
- **CLARA**, Climate forecast enabled knowledge services (2017-2020), aimed at facilitating development of new and enhancement of existing climate services by drawing upon the recent seasonal to decadal projections and projections developed under the Copernicus Climate Change Services (C3S);
- **PROLINE-CE**, Efficient Practices of Land Use Management Integrating Water. Resources Protection and Non-structural Flood Mitigation (2016-2019), focusing on the sustainable use of drinking water resources and flood/droughts protection in an integrated land use management approach;
- **CMCC Strategic Projects** (2016-2018), focusing on the modelling of climate change impact on marine water resources and ecosystems;
- **ORIENGATE** (2012-2014) to implement concerted and coordinated climate adaptation actions across South Eastern Europe (SEE) regarding water resources and agricultural and forestry ecosystems;
- **GLOCOM** (Global Partners in Contaminated Land Management, 2010-2014) aims at strengthening the quality of research on complex issues in contaminated land management by developing international collaborations and advance the decision making in Europe and China;
- **CLIM-RUN** (Climate Local Information in the Mediterranean region: Responding to User Needs, 7FP, 2011-2013) aims at developing a protocol for applying new methodologies and improved modelling and downscaling tools for the provision of adequate climate information at regional to local scale that is relevant to and usable by different sectors of society (policymakers, industry, cities, etc.).

Personal skills and competences

Mother tongue(s) **Italian**

Other language(s)

Self-assessment
European level ()*

English

Spanish

Catalan

	Understanding		Speaking				Writing	
	Listening	Reading	Spoken interaction		Spoken production			
English	C1 Proficient User							
Spanish	B2 Intermediate User							
Catalan	A2 Basic User	A1 Basic User	A1 Basic User					

(*) Common European Framework of Reference for Languages

Computers skills

Windows XP, Windows Vista and Windows 7, Microsoft Office Programs (Word, Excel, Power Point), Internet Explorer, Mozilla Firefox, Social Networks, HUGIN Expert for Bayesian Network analysis, Fortran, DESYCO, InVEST, Basic knowledge of Geographic Information Systems (ArcInfo, ArcGis) and Soil and Water Assessment Tool (SWAT).

Venezia, 25/06/19