

## Curriculum Vitae



**Personal information** Interdisciplinary researcher and modeller  
[https://www.bc3research.org/en/stefano\\_balbi.html](https://www.bc3research.org/en/stefano_balbi.html)

First name / Surname **Stefano Balbi**  
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## Work experience

Dates	January 2016 - ongoing
Occupation or position held	<b>Associate Researcher</b>
Main activities and responsibilities	Basic research on the sustainability of coupled human-environmental systems. Main methods: data/model integration and agent-based modelling. Management of the ARIES network and its cyberinfrastructure <a href="http://www.integratedmodelling.org/">http://www.integratedmodelling.org/</a> . PI of the ALICE Interreg Atlantic Project on Blue and Green Infrastructure.
Employer	<b>Basque Centre for Climate Change (BC3)</b> , Bilbao, Spain - <b>co-funded Juan de la Cierva incorporación Fellowship.</b>
Dates	January 2013 – December 2015
Occupation or position held	<b>Post-Doctoral Researcher</b>
Main activities and responsibilities	Analysis of ecosystem services, agriculture and food security, flood risk reduction, through dynamic spatial modeling integrating agent-based modeling, and Bayesian networks. Decision Support Systems for Modelling Ecosystem Services. Contribution to the ARIES (ARTificial Intelligence for Ecosystem Services) project and ESPA ASSETS (Attaining Sustainable Services from Ecosystems through Trade-off Scenarios) project.
Employer	<b>Basque Centre for Climate Change (BC3)</b> , Bilbao, Spain - <b>co-funded Marie Curie Actions (People -- Grant agreement nº 267230).</b>
Dates	October 2011 – December 2012
Occupation or position held	<b>Expert</b> of the Italian Delegation for the <b>Alpine Convention Tourism Protocol.</b>
Main activities and responsibilities	Participation to the drafting of the Fourth Report on the State of the Alps about Sustainable Tourism.
Employer	<b>Italian Ministry for Environment and Territory and Sea and Euro-Mediterranean Centre for Climate Change (CMCC)</b>

Dates	August 2011 – December 2012
Occupation or position held	<b>Researcher</b> for the KULTURisk (EC Seventh Framework Program) research project on hydrological disasters integrated risk management. From November 2011, <b>Honorary fellow</b> in environmental economics.
Main activities and responsibilities	Economic analysis of floods and landslides and integrated assessment of the risk prevention measures. Research on environmental economics, project appraisal and agent-based modeling.
Employer	<b>Ca' Foscari University of Venice</b> , Department of Economics.
Dates	January 2011 – July 2011
Occupation or position held	<b>Research fellow</b> for the FIUMI project of the Lombardy Region on the analysis of the pollution impacts and of the measures of intervention for the Olona, Seveso, Lambro and Mella river basins.
Main activities and responsibilities	Cost-Effectiveness Analysis of the measures of intervention through a multi-criteria approach applied to a Decision Support System (mulinoDSS).
Employer	<b>Polytechnic University of Milan</b> , Department of Environmental Engineering.
Dates	May 2009 – October 2011.
Occupation or position held	<b>Scientific consultant</b> for the ClimAlpTour project concerning the impacts of Climate Change on Tourism in the Alps. European Territorial Cooperation, Alpine Space Programme 2007-2013.
Main activities and responsibilities	Project management, data analysis, development and application of a Decision Support System (mulinoDSS) in various participatory decision making processes.
Employer	<b>Euro-Mediterranean Centre for Climate Change (CMCC)</b> , Venice. Division Climate Impacts and Policies (CIP).

## Education and training

Dates	October 2007 – March 2011
Title of qualification awarded	<b>Ph.D.</b> in Analysis and Governance of Sustainable Development. Awarded with the title of " <b>Doctor Europaeus</b> ".
Principal subjects covered	Environmental Economics, MultiCriteria Analysis, Agent-Based Modelling, Climate Change, Tourism Planning, Decision Support Systems, Water management, Global Governance. Dissertation: " <i>Three essays on agent-based modelling and climate change adaptation</i> "

## Personal skills and competences

Mother tongue **Italian**

Other languages (A1 Min – C2 Max)

	Understanding		Speaking		Writing	
	Listening	Reading	Spoken interaction	Spoken production		
<b>English</b>	C1	C1	C1	C1	C1	
<b>Portuguese</b>	B2	B2	B2	B1	A2	
<b>Spanish</b>	B2	B2	B2	B1	A2	
<b>French</b>	A1	A1	A1	A1	-	

- Social skills and competences I lectured at various **seminars and courses** for the Ca' Foscari University and for different Summer Schools (BC3, IUAV and University of Padova) and High Schools (Liceo Quadri Vicenza), both in English and in Italian.  
I presented at various **conferences and workshops** most notably the International Environmental Modelling & Software Society 2010 (Ottawa), 2012 (Liepzig), and 2016 (Toulouse); the Western Economic Association International 2011(San Diego); the International Society for Ecological Economics 2014 (Reykjavik).  
I assisted the **supervision** of master's and PhD's students in the preparation of their thesis both at BC3 and Ca' Foscari.  
I taught at and contributed to organize the first five editions (2013-2017) of the BC3 spring school on integrated modelling and ecosystem services  
<http://springuniversity.bc3research.org/>.
- Organisational skills and competences **Project cycle management**, including conceptualization and budgeting.  
Organization and direction of participatory consultation processes.  
Communication management.
- Computer skills and competences Programming with domain specific languages for system modelling.  
Softwares and packages: Simile, Vensim (**system dynamics**); QuantumGis, ArcGis (**geographic information system**); NetLogo (**agent-based modelling**); R (**data analysis and modelling**); Pajek, Gephi (**social network analysis**); mulinoDSS (**multi-criteria decision support system**); GeNie (**Bayesian networks**); ARIES, k.LAB (**semantic meta-modelling**); StarUML (**unified modelling language**); Git (**revision control and source code**).  
Basic knowledge of **Java**.

-----I hereby declare that the information given above is true to the best of my knowledge