

## PERSONAL INFORMATION

## Gabriele Standardi

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WORK EXPERIENCE

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November 2023 to present **Researcher**

University of Milan  
Department of Environmental Science and Policy  
Via Celoria 2 - 20133 Milan – Italy

**Affiliated Scientist**

Euro-Mediterranean Center on Climate Change (CMCC)  
RFF-CMCC European Institute on Economics and the Environment (EIEE)  
Via della libertà 12 - 30175, Venice – Italy

January 2012 to November 2023 **Scientist**

Euro-Mediterranean Center on Climate Change (CMCC)  
RFF-CMCC European Institute on Economics and the Environment (EIEE)  
Via della libertà 12 - 30175, Venice - Italy

January 2012 to December 2017 **Researcher**

FEEM – Fondazione ENI Enrico Mattei  
Isola di San Giorgio Maggiore 8, 30124, Venice - Italy

January 2011 to December 2011 **Post-Doc Researcher**

CNRS – Centre Nationale de la Recherche Scientifique  
Rue de Canonniers 2, 59046 Lille – France

February 2008 to June 2008 **Intern – Research Assistant**

CEPII – Centre d'Etudes Prospectives et d'Informations Internationales  
Rue de Grenelle 113, 75007 Paris – France

EDUCATION AND TRAINING

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January 2006 to May 2010 **PhD in Economics and Finance**

University of Verona – Via dell'Artigliere 8, 37129 Verona - Italy

October 2006 to October 2008 **Master of Science in International Economics**

University of Cergy-Pontoise – 33 Boulevard du Port, 95011 Cergy-Pontoise - France

October 1998 to November 2004 **Master Degree in Political Science**

University of Perugia – Piazza Università 1, 06123 Perugia – Italy

## PERSONAL SKILLS

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Mother tongue Italian

### Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
French	C1	C1	C1	C1	C1
Spanish	A1	A1	A1	A1	A1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user

▪ Common European Framework of Reference for Languages

Computer skills Gempack, Gams, R, Stata, Office

## ADDITIONAL INFORMATION

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- Projects**
- 2023-ongoing, Accreu (Horizon programme): Assessing Climate Change Risk in Europe
  - 2021-ongoing, Atlanteco (H2020 programme): Atlantic Ecosystems assessment, forecasting & sustainability
  - 2021-2023, Talanoa Water (H2020 programme): Talanoa Water Dialogue for Transformational Adaptation to Water Scarcity Under Climate Change
  - 2021-2023, FutureMARES (H2020 programme): Climate Change and Future Marine Ecosystem Services and Biodiversity
  - 2017-2022, Coacch (H2020 programme): Co-designing the Assessment of Climate Change costs
  - 2019, PNIEC macro-economic assessment (National project): CGE analysis to assess macro-economic consequences of energy policies for the Ministry of Environment and Energy.
  - 2012-2016, Gemina (CMCC Strategic Project): detailing the spatial resolution of a global CGE model for the European Union
  - 2014, Economic Assessment for the Finnish Environment Institute (Commissioned Project): indirect economic impacts of climate change on the Finnish economic system using the CGE approach
  - 2014, Marine Strategy (National Project): preparatory phase on the Marine Strategy Framework Directive developed by ISPRA and University of Cà Foscari

- Conferences**
- Assessing macro-economic effects of climate impacts on labour productivity in EU sub-national regions. Presented in: 26th Annual Conference on Global Economic Analysis, Bordeaux, France, 14-16 June 2023
  - Assessing macro-economic effects of climate impacts on energy demand in EU sub-national regions. Presented in: 27th Annual Conference of the European Association of Environmental and Resource Economists (EAERE), Rimini, Italy, 28 June - 1 July 2022
  - A CGE model framework for the combined assessment of future migration patterns and economic effects under climate change scenarios. Presented in: IIASA Scenario Forum 2022, Laxenburg,

Austria, 20-22 June 2022

Assessing macro-economic effects of climate impacts on energy demand in EU sub-national regions. Presented in: 10th Annual Conference of the Italian Association of the Environmental and Resource Economists, online, 21-23 April 2022

Assessing macro-economic effects of climate impacts on energy demand in EU sub-national regions. Presented in: 24th Annual Conference on Global Economic Analysis, online, 23-25 June 2021

Welfare implications of increasing spatial resolution in national CGE models for climate change impact assessment. Presented in: 23th Annual Conference on Global Economic Analysis, online, 17-19 June 2020

Welfare implications of increasing spatial resolution in national CGE models for climate change impact assessment. Presented in: 8th Annual Conference of the Italian Association of the Environmental and Resource Economists, Brescia, 7 February 2020

Exploring market adaptation to climate change in a general equilibrium global trade model. Presented in: 24th Annual Conference of the European Association of Environmental and Resource Economists (EAERE), Manchester, UK, 26-29 June 2019

Testing a methodology to split a national database and compute intra-national trade flows: an application for the Russian regions. Presented in: 22th Annual Conference on Global Economic Analysis, Warsaw, 19-21 June 2019

The role of spatial and technological details for energy/carbon mitigation impacts assessment in Computable General Equilibrium models. Presented in: 37th International Energy Workshop (IEW), Gothenburg, Sweden, 19-21 June 2018

A Coupled Positive Multi-Attribute Utility Programming and Computable General Equilibrium Model to Assess the Micro-macro Feedback Links of Agricultural Water Management. Presented in: 6th Annual Conference of the Italian Association of the Environmental and Resource Economists, Turin, Italy, 15-16 February 2018

Economy-wide repercussions of agricultural water buyback. Presented in: Società Italiana per le Scienze del Clima (SISC) - Fifth Annual Conference -, Bologna, Italy, 26-27 October 2017

Economy-wide repercussions of agricultural water buyback. Presented in: 23rd Annual Conference of the European Association of Environmental and Resource Economists (EAERE), Athens, Greece, 28 June - 1 July 2017

Endogenous technical change linked to international mobility of primary factors in climate change scenarios: global welfare implications using the GTAP model. Presented in: 20th Annual Conference on Global Economic Analysis, West Lafayette, USA, 7-9 June 2017

Economy-wide repercussions of agricultural water buyback. Presented in: 5th Annual Conference of the Italian Association of the Environmental and Resource Economists, Rome, Italy, 16-17 February 2017

Sensitivity of Modeling Results to Technological and Regional Details: The Case of Italy's Carbon Mitigation Policy. Presented in: Ecomod2016, Lisbon, Portugal, 6-8 July 2016

Sensitivity of Modeling Results to Technological and Regional Details: The Case of Italy's Carbon Mitigation Policy. Presented in: 22nd Annual Conference of the European Association of Environmental and Resource Economists (EAERE), Zurich, Switzerland, 22-25 June 2016

Sensitivity of Modeling Results to Technological and Regional Details: The Case of Italy's Carbon Mitigation Policy. Presented in: 35th International Energy Workshop (IEW), Cork, Ireland, 1-3 June 2016

Sensitivity of Mitigation costs to regional and technological detail: the case of the Italian electricity sector. Presented in: 4th Annual Conference of the Italian Association of the Environmental and Resource Economists, Bologna, Italy, 11-12 February 2016

Sensitivity of Mitigation costs to regional and technological detail: the case of the Italian electricity sector. Presented in: Florence School of Regulation, Climate Annual Conference, Florence, Italy, 22-

23 October 2015

Incremental water charging in agriculture. A case study of the Region Emilia Romagna in Italy. Presented in: FAO Science Symposium on Climate, Rome, Italy, 19-20 November 2015

Economics of flood risk in Italy under current and future climate. Presented in: Our Common Future Conference, Paris, France, 7-10 July 2015

Assessing the economic general equilibrium effects of sea level rise in the Italian regions. Presented in: European Climate Change Adaptation Conference, Copenhagen, Denmark, 12-14 May 2015

International Migration and Climate Change Economic Impact: a CGE Assessment for SLR. Presented in: 3rd Annual Conference of the Italian Association of the Environmental and Resource Economists, Padua, Italy, 20-21 February 2015

Assessing the economic general equilibrium effects of sea level rise in the Italian regions. Presented in: Società Italiana per le Scienze del Clima (SISC) - Second Annual Conference - Climate Change: scenarios, impacts and policy, Venice, Italy, 29-30 September 2014

Endogenous determination of migration flows between Africa and European Union by interlinking demographic dynamics and labour market liberalization in a modified version of the GTAP model. Presented in: 17th Annual Conference on Global Economic Analysis, Dakar, Senegal, 18-20 June 2014

Assessing the economic general equilibrium effects of sea level rise in the Italian regions. Presented in: 2nd Annual Conference of the Italian Association of the Environmental and Resource Economists, Milan, Italy, 13-14 February 2014

Assessing direct and indirect economic impacts of a flood event through the integration of spatial and computable general equilibrium modelling. Presented in: Second Convention of CMCC and FEEM Research Divisions on Climate Change and Sustainable Development, Venice, Italy, 21-23 October 2013

A Sub-national Version of the GTAP Model for Italy. Presented in: 16th Annual Conference on Global Economic Analysis, Shanghai, China, 12-14 June 2013

A sub-national version of the ICES model for the Italian macro-regions. Presented in: 1st Convention of CMCC and FEEM Research Divisions on Climate Change and Sustainable Development held in Venice, Italy, 22-24 October 2012

A Global CGE Model at the NUTS 1 level for Trade Policy Evaluation. Presented in: Doctoral Meeting in International Trade and International Finance, Kiel, Germany, 27-28 May 2010, Research in International Economics and Finance network (RIEF)

**Honours and awards** Economic Modelling for Climate Energy Policy (ECOCEP) grant (October-December 2014); Research prize 2<sup>nd</sup> semester 2014, Best paper FEEM, "Assessing direct and indirect economic impacts of a flood event through the integration of spatial and computable general equilibrium modelling"

**Referee Activity** Climatic Change; Economic System Research; Environmental Economics and Policy Studies; Land Use Policy; Regional Environmental Change; Mitigation and Adaptation Strategies for Global Change; Environmental Modeling & Assessment; Environmental and Resource Economics; Ecological Economics

**Memberships** Centre for Applied Macroeconomic Analysis (CAMA), Australian National University; European Association of Environmental and Resource Economists (EAERE); Italian Association of Environmental and Resource Economists (IAERE); Global Trade Analysis Project (GTAP)

**Publications in peer reviewed journals** Bardazzi E., Standardi G, Bosello F., Key R. (2024). Toward the full implementation of the water-energy-food nexus in computable general equilibrium modelling: methods and macroeconomic implications, *Economic Systems Research*, <https://doi.org/10.1080/09535314.2024.2349881>

Standardi G, Dasgupta S., Parrado R., De Cian E., Bosello F. (2023). Assessing Macro-economic Effects of Climate Impacts on Energy Demand in EU Sub-national Regions, *Environmental and Resource Economics*, 86, 173–201, <https://doi.org/10.1007/s10640-023-00792-4>

Standardi, G. Exploring market-driven adaptation to climate change in a general equilibrium global

trade model. (2023). *Mitigation and Adaptation Strategies for Global Change*, 28, 11, <https://doi.org/10.1007/s11027-023-10049-6>

van der Wijst K.I., Bosello F., Dasgupta S., Parrado R., Standardi G., et al. (2023). New damage curves and multimodel analysis suggest lower optimal temperature. *Nature Climate Change*, 13, 434–441, <https://doi.org/10.1038/s41558-023-01636-1>

Rizzati M., Standardi G., Guastella G., Parrado R., Bosello F. and Pareglio S. (2022). The local costs of global climate change: spatial GDP downscaling under different climate scenarios, *Spatial Economic Analysis*, DOI: 10.1080/17421772.2022.2096917

Pérez-Blanco C.D., Parrado R., Essenfelder A.H., Bodoque J., Gil-García L., Gutiérrez-Martín C., Ladera J., Standardi G. (2022). Assessing farmers' adaptation responses to water conservation policies through modular recursive hydro-micro-macro-economic modeling, *Journal of Cleaner Production*, Vol. 360, 132208

García-León D., Casanueva A., Standardi G., Burgstall A., Flouris A.D., Nybo L. (2021). Current and projected regional economic impacts of heatwaves in Europe, *Nature Communications*, f12:5807

García León D., Standardi G., Staccione A. (2020). An integrated approach for the estimation of agricultural drought costs, *Land Use Policy*, Vol 100, 104923

Pérez-Blanco C.D., Standardi G. (2019). Farm waters run deep: a coupled positive multi-attribute utility programming and computable general equilibrium model to assess the economy-wide impacts of water buyback, *Agricultural Water Management*, 213, pp 336-351

Parrado R., Pérez-Blanco C.D., Gutiérrez-Martín C., Standardi G. (2019). Micro-macro feedback links of agricultural water management: insights from a coupled iterative Positive Multi-Attribute Utility Programming and Computable General Equilibrium model in a Mediterranean basin, *Journal of Hydrology*, vol. 569, pp 291-309

Panagos P., Standardi G., Borrelli P., Lugato E., Montanarella L. and Bosello F. (2018). Cost of agricultural productivity loss due to soil erosion in the European Union: from direct cost evaluation approaches to the use of macroeconomic models, *Land Degradation & Development*, vol. 29(3), pp.471-484

Standardi G., Cai Y. and Yeh S. (2017). Sensitivity of Modeling Results to Technological and Regional Details: The Case of Italy's Carbon Mitigation Policy, *Energy Economics*, vol. 63, pp 116-128

Koks E. E., Carrera L., Jonkeren O., Aerts J.C.J.H., Husby T.G., Thissen M., Standardi G. and Mysiak J. (2016). Regional disaster impact analysis: comparing Input-Output and Computable General Equilibrium models, *Natural Hazards and Earth System Sciences*, vol. 16, pp. 1911-1924

Pérez-Blanco C.D., Standardi G., Mysiak J., Parrado R. Gutiérrez-Martín C. (2016). Incremental water charging in agriculture. A case study of the Region Emilia Romagna in Italy, *Environmental Modelling & Software*, vol. 78, pp 202-215

Carrera L., Standardi G., Bosello F., Mysiak Y. (2015). Assessing direct and indirect economic impacts of a flood event through the integration of spatial and computable general equilibrium modelling, *Environmental Modelling & Software*, vol. 63, 109-122

Perali F., Pieroni L. and Standardi G. (2012). World Tariff Liberalization in Agriculture: an Assessment Using a Global CGE Trade Model for EU15 Regions, *Journal of Policy Modeling*, vol. 34(2), pp. 155-180

#### Chapters in books

Forzieri G., Bosello F., Parrado R., Standardi G., Dasgupta S. et al. (2022). Impatti dei cambiamenti climatici sulle infrastrutture, in C. Carraro (eds.), *Cambiamenti climatici, infrastrutture e mobilità*, il Mulino

Bosello F. and Standardi G. (2018). A Sub-national CGE Model for the European Mediterranean Countries, in F. Perali and P. L. Scandizzo (eds.), *The New Generation of Computable General Equilibrium Models*, Springer International

Milano 27 May 2024