



Europass Curriculum Vitae

Personal information

First name/ Surname **Andrea Bigano**

Nationality Italian

Date of birth 30 June 1969

Work experience

Dates November 2016- October 2017

Occupation or position held
Main activities and responsibilities

- Visiting Chief Researcher in Economics
- Coordinating the research on economic impacts of climate change within the Laboratory of Climate Research.
- Supervision of PhD Students.
- Contributing to the Laboratory activities (mainly from remote) and visiting the Far Eastern Federal University in October 2017.

Name and address of employer Department of Soil Science, School of Natural Sciences, Far Eastern Federal University, L643 Office, Bldg. L, FEFU Campus, Russkiy Island, Vladivostok, Russia

Dates January 2011 →

Occupation or position held
Main activities and responsibilities

Scientist, Associate Scientist

- Researcher within the ECIP Strategic Project on climate risk indicators for sovereigns (Jan 2020 -)
- Researcher within the DG -CLIMA tender SAM PS on modelling for climate change adaptation (Jan 2020 -)
- Researcher within the Horizon 2020 CSA project SINCERE (Jan 2019-) on strengthening the delivery of the JPI Climate Strategic Research and Innovation Agenda, with specific focus on the climate finance community (Jan 2019-)
- Task Manager for climate change impacts and adaptation in the energy system within the European Topic Centre on Climate Change impacts (ETC-CCA), tender ECC-EEA; co-authoring EEA report on the same topic; (Nov 2018 -)
- Senior Scientist within the RFF-CMCC European Institute on Economics and the Environment (Sept 2018-)
- Lead expert for socioeconomic data analysis, C3S Tourism, Copernicus Service contract (Tender EMCWF) (Nov 2017- July 2019)
- Member of the CMCC for the Interreg MED Project MEDNICE, on energy efficiency in public buildings (Jan 2017-)
- Sector Coordinator for Tourism and Energy, Italian National Adaptation Plan (Tender of the Italian Ministry of the Environment, Land and Sea); member of the coordinating team (2016)
- Lead Expert for the energy sector in a project providing technical assistance for institution building of the Albanian Ministry of Environment in enforcing the EU environmental and climate Acquis. Tender EuropeAid/135700/DH/SER/AL (July 2015 – April 2017)
- Lead Author for Energy and Tourism, 2016 EEA report on climate change, impacts and vulnerability in Europe. Tender ECC-EEA (April 2014 – Dec 2016)
- Sector Coordinator for Tourism, Italian National Adaptation Strategy (Tender of the Italian Ministry of the Environment, Land and Sea) (2012-2014)
- Scientific Leader of the CMCC team involved in the Europeaid project EC2, on the cooperation between Europe and China on clean energy technologies, leading to the establishment of an excellence centre (the EC2 Centre) at the Tsinghua university in Beijing. Member of the core team drafting the project proposal and Work Package leader for Work

	Package C (capacity building) (2009-2013)
Name and address of employer	Centro Euro-Mediterraneo sui Cambiamenti Climatici (CMCC), Via Augusto Imperatore 16, 73100 Lecce, Italy
Type of business or sector	Non-profit research institute
Dates	June 2003 → June 2018
Occupation or position held	Senior Researcher
Main activities and responsibilities	<ul style="list-style-type: none"> • Chair, 6th Workshop on Empirical Methods in Energy Economics, (June 2017-June 2018) • Principal investigator in a short project on the implementation of Directive 2012/27/EU on energy efficiency in the area of households and in the building sector. Tender of the Directorate General for Parliament Research Services, European Parliament, Brussels (2016) • Senior investigator in the FP7 project Pocacito, on roadmaps for EU post-carbon cities. (2013 -2017). • Work Package Leader, WP6 Quantitative Modelling, in the 7th Framework Programme (FP7) project DYNAMIX, on the design and assessment of policy mixes for resource efficiency in the EU (2012 -). • Senior investigator in the FP7 project PURGE (Public health impacts in Urban environments of Greenhouse gas Emissions reduction strategies). Involved in Work Packages 7 and 8, on the evaluation of the household response to different measures to increase energy efficiency and reduce greenhouse gases emissions. (2011-2014) • Research Leader for the topic “Sustainable Energy” in FEEM’s Sustainable Development Program (2008-2011) • Scientific coordinator of SECURE, a FP7 medium-size project (15 partners, 36 months) on energy security in Europe. Drafting and negotiating the project proposal. (2007 -2010) • Scientific supervision of a project on the comparative analysis of energy markets and energy policies in the EU, USA, Japan and China (Tender of the Italian Ministry of the Environment, Land and Sea, 2007 -2008). • Negotiation and coordination of a project on energy efficiency in Italy for the Italian energy industry trade association (Confindustria Energia) (2007). • Evaluation of the costs of inaction and adaptation related to the impacts of climate change effects on hydrogeological risk in Italy, within a project evaluating costs and adaptation options of climate change in Italy. Tender of the Italian Ministry of the Environment, Land and Sea in preparation of the National Conference on Climate Change. (2007). • Econometric analysis of the impacts of climate change in the Italian Alps. (Interreg Project ClimChAlp, 2007). • Evaluation of climate and energy policy scenarios for the Lombardy Region (2007). • Member of the coordination team of a FP6 project on full cost assessment of electricity production in Europe (CASES). (2006-2007). • Management of a FP6 project on the economic analysis of the external costs of oil production and transport (NEEDS) (2005-2007). • Econometric and computable general equilibrium analysis of climate change effects on the world economy through its impacts on tourism, sea level rise and energy demand (2003-2007).
Name and address of employer	Fondazione Eni Enrico Mattei (FEEM), Corso Magenta 63, 20123 Milan, Italy
Type of business or sector	Non-profit research institute
Dates	September 2005 - December 2006
Occupation or position held	Consultant (part time)
Main activities and responsibilities	<ul style="list-style-type: none"> • Energy Markets Analysis (prices and demand forecasts, electricity transmission issues). • Set-up and coordination of a project monitoring energy investments in Italy • Competition scenario analysis for Alitalia.
Name and address of employer	REF, Ricerche per l’Economia e la Finanza, Via Gioberti 5, 20123 Milan, Italy
Type of business or sector	Consultancy Firm
Dates	June 2003 - March 2004
Occupation or position held	Scientific Consultant (part time)
Main activities and responsibilities	<ul style="list-style-type: none"> • Analysis of the impact of climate change on tourism in a general equilibrium perspective.

	<ul style="list-style-type: none"> • Setting-up of the analysis of the climate change impact on energy use.
Name and address of employer	The Abdus Salam International Centre for Theoretical Physics (ICTP), Strada Costiera 11, 34100 Trieste, Italy
Type of business or sector	International Institution (UNESCO research centre).
Dates	August 1996 – May 2003
Occupation or position held	Research Officer
Main activities and responsibilities	Quantitative analyses of the European electricity sector by means of partial equilibrium computable models (1999-2003). Evaluation of environmental policies for the Belgian electricity sector; based on ExternE Project external cost estimates. Theoretical analysis of environmental policies in an international oligopolistic market, in presence of asymmetric information (1997–1999). Economic valuation of the external costs of electricity generation in Belgium. (National Implementation of the ExternE project) (1997–1998) Econometric evaluation of the impact of climate change in Italy. (1996–2000).

Name and address of employer	Centrum voor Economische Studiën, Katholieke Universiteit Leuven (KUL), Naamsestraat 69, 3000 Leuven, Belgium
Type of business or sector	Academic Research Centre

Teaching activities

- Lectures on energy and climate change for the training module "Climate Scenarios and Adaptation and Mitigation Policies" within the tender contract "Higher Education Services in the fields of sustainable development and environmental management in the framework of bilateral cooperation Italy - China " for the Italian Ministry of Environment, (2018-2019)
- Lectures on energy economics within a short course by CMCC and the University of Maryland on "Energy, climate change and options for a low-carbon economy" (2017-2019)
- Short courses on the economics of energy sources and climate change, University of Turin, (May 2010, October-November 2010, November 2011, October-November 2012).
- Contract professor for an advanced course in Microeconomics, University of Milan - Bicocca, Faculty of Statistics (Academic Year 2007-2008).
- Lectures on "Global Energy Challenges in the 21st Century" and "Energy Planning in Resource Rich Countries and Recourse Poor Countries" within the "Sustainability of Natural Resources" course, Venice International University (July 2008).
- Short course on "Evaluation of Externalities of the Energy Sector" within the doctoral program of the Department of Mechanical Engineering, University of Padua (Academic Year 2006-2007).
- Short course on "Environmental Economics and Sustainable Tourism" within the Master program on Environmental Economics and Policy of the Faculty of Political Science, University of Milan. (Academic Year 2004-2005).

Education and training

Dates	1 st September, 1997 – 25 th February, 2003
Title of qualification awarded	PhD. in Economics
Name and type of organisation providing education and training	Katholieke Universiteit Leuven, Belgium, (University)
Title of the Thesis	"The Environmental Regulation of the Electricity Sector in a European Market Framework (Supervisor: Prof. Stef Proost)
Dates	1 st August, 1996 - 1 st September, 1997
Title of qualification awarded	Doctoral Qualification in Economics
Principal subjects / occupational skills covered	Energy Economics, Environmental Economics, Industrial Economics, Public Economics, Microeconomics, Game Theory
Name and type of organisation providing education and training	Katholieke Universiteit Leuven, Belgium (University)
Title of the Thesis	Environmental Regulation of the Electricity Sector in a European Context (Supervisor: Prof. Stef Proost).

Dates 1st September, 1995 – 1st September, 1996
 Title of qualification awarded Master of Science in Environmental Economics
 Name and type of organisation providing education and training University College London, United Kingdom (University)
 Title of the Thesis The Amenity Value of Climate in Italy (Supervisor: Prof. David Maddison)

Dates 1st September, 1987 – 16th March, 1994
 Title of qualification awarded Laurea in Economia Politica (First Degree in Economics) (110/110 cum laude)
 Name and type of organisation providing education and training Università Commerciale L. Bocconi, Milan, Italy
 Title of the Thesis Modelli di regolamentazione dell'inquinamento da fonte non localizzata (Models of non-point pollution regulation) (Supervisor: Prof. Piero Tedeschi)

Other courses and Summer schools EEA Summer School on Regulation of European Markets, Toulouse, France (1999).
 EAERE Summer School on the International Dimension of Environmental Policy, Venice, Italy (2000)
 ICTP Advanced Course on Computable General Equilibrium Modelling (CGE) and the Environment, Trieste, Italy (2003)

Personal skills and competences

Mother tongue(s) **Italian**

Other language(s)

Self-assessment
 European level (*)

English
Dutch
Spanish / Castilian
French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
B2	Independent user	B2	Independent user	B1	Independent user	B1	Independent user	A2	Basic user
B2	Independent user	B2	Independent user	B1	Independent user	B1	Independent user	A2	Basic user
B1	Independent user	B2	Independent user	B1	Independent user	B1	Independent user	A2	Basic user

(*) [Common European Framework of Reference \(CEF\) level](#)

Computer skills and competences Economic Modelling: GAMS, Gempack. ;Statistic/Econometric analysis: Stata.
 Microsoft Office (Word, Excel, Powerpoint)

Additional information

- Consultant for the OECD, Paris, France (August 2014 – June 2015) Reviewing the approaches used in economy-environment models to study the economic consequences of the health impacts from air pollution (valuation of mortality, morbidity and productivity effects) and advising on the most suitable methodology to be used for the CIRCLE project.
- Judicial expert in the Joint Review Panel process of the Northern Gateway Pipeline project, for the Janes Freedman Kyle Law Corporation, Vancouver, Canada, representing the Gitxala First Nation. Providing expert opinion and testimony on the risk assessment results submitted by the proponent (2011, 2013).
- Oral presentations at almost all conferences of the European Association of Environmental and Resources Economists (EAERE) since 1997 (bar 2004) and at the 2002 and 2014 editions of the World Congress of Environmental and Resource Economists. Several presentations in international seminars, workshops and conferences.
- Reviewer, IPCC WORKING GROUP II Climate Change 2014: Impacts, Adaptation, and Vulnerability AR5.
- Refereeing of economic articles for the Energy Journal, Energy Economics, Economic Modelling, Climatic Change, Journal of Tourism Management, Journal of Transport Economics and Policy and the Feem Working Paper Series

- Member of the European Association of Environmental and Resource Economists.
- Member of the Italian Association of Environmental and Resource Economists.
- Member of the research network Empirical Methods in Energy Economics (EMEE)
- Member of the Scientific Committee of the blog Climalteranti (www.climalteranti.it)
- Research Fellow, CMCC, Venice and Lecce, Italy (2007-2010).

Annexes | List of publications on next page

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SELECTED PUBLICATIONS BY ANDREA BIGANO

Papers in peer-reviewed journals

Harris S., Weinzettel J., Bigano A., Källmén A. (2020) Low carbon cities in 2050? GHG emissions of European cities using production-based and consumption-based emission accounting methods. *Journal of Cleaner Production*, V. 248, 2020, 119206, ISSN 0959-6526, <https://doi.org/10.1016/j.jclepro.2019.119206>

Alberini A., Di Cosmo V., Bigano A., (2019) How are fuel efficient cars priced? Evidence from eight EU countries *Energy Policy*, Vol: 134 pp: 110978, <https://doi.org/10.1016/j.enpol.2019.110978>

Zotti, J. and Bigano, A. (2019) Write circular economy, read economy's circularity. How to avoid going in circles. *Econ Polit* (2019). <https://doi.org/10.1007/s40888-019-00145-9>

Alberini, A., Ščasný, M. Bigano, A., (2018) Policy- v. individual heterogeneity in the benefits of climate change mitigation: Evidence from a stated-preference survey, *Energy Policy*, V. 121, 565-575, ISSN 0301-4215, <https://doi.org/10.1016/j.enpol.2018.07.008> .

Alberini, A., Bigano, A. Ščasný, M., Zvěřinová, I., (2018) Preferences for Energy Efficiency vs. Renewables: What Is the Willingness to Pay to Reduce CO₂ Emissions?, *Ecological Economics*, V. 144, 171-185, ISSN 0921-8009.

Spinoni, J., Vogt, J. V., Barbosa, P., Dosio, A., McCormick, N., Bigano, A. and Fussel, H.-M. (2017), Changes of heating and cooling degree-days in Europe from 1981 to 2100. *Int. J. Climatol.* doi:10.1002/joc.5362

Bigano A., Sniegocki, A, Zotti, J., (2016), Policies for a More Dematerialized EU Economy. Theoretical Underpinnings, Political Context and Expected Feasibility, *Sustainability*, 8(8), 717, 1-22, <http://www.mdpi.com/2071-1050/8/8/717>

Alberini, A., Bigano, A. (2015) "How Effective Are Energy-Efficiency Incentive Programs? Evidence from Italian Homeowners". *Energy Economics*, 52(S1): S76-s85 doi:10.1016/j.eneco.2015.08.021

Alberini, A. Bigano, A. Boeri, M. (2014) Looking for Free-riding: Energy Efficiency Incentives and Italian Homeowners. *Energy Efficiency*, 7:571–590 DOI 10.1007/s12053-013-9241-7, Springer.

Bigano, A., Cassinelli, M., Markandya, A., Sferra, F. (2010). The Role of Risk Aversion and Lay Risk in the Probabilistic Externality Assessment for Oil Tanker Routes to Europe *Journal of Transport Economics and Policy*, 44 (1), pp. 93-118.

Bigano, A, Bosello, F. Roson, R., Tol, R.S.J. (2008) Economy-Wide Estimates of the Implications of Climate Change: A Joint Analysis for Sea Level Rise and Tourism. *Mitigation and Adaptation Strategies for Global Change* Vol. 13, 8, pp 765–791.

Bigano, A., Hamilton, J.M., Tol, R.S.J. (2007). The Impact of Climate Change on Domestic and International Tourism: A Simulation Study, *The Integrated Assessment Journal* Vol. 7, 1, Pp. 25–49. Open Access Research.

Bigano, A., Hamilton J.M., Lau M., Tol, R.S.J. and Zhou, Y. (2007), "A Global Database of Domestic and International Tourist Numbers at National and Subnational Level", *International Journal of Tourism Research*, vol. 9, pp. 147-154.

Bigano, A., Hamilton, J.M., Maddison, D.J., and Tol, R.S.J. (2006), "Predicting Tourism Flows under Climate Change", An Editorial Essay, *Climatic Change*, Vol. 79, N. 3-4.

Bigano, A., Hamilton, J.M., Tol, R.S.J. (2006). The Impact of Climate on Holiday Destination Choice. *Climatic Change* 76: 389-406

Berritella, M., Bigano, A., Roson, R., Tol, R.S.J. (2006). A General Equilibrium Analysis of Climate Change Impacts on Tourism. *Tourism Management* .27: 913-924.

Maddison, D., Bigano, A. (2003). The Amenity Value of the Italian Climate. *Journal of Environmental Economics and Management*, 45: 319-332.

Bigano, A., Proost, S., Van Rompuy, J. (2000). Alternative Environmental Regulation Schemes for the Belgian Power Generation Sector. *Environmental and Resources Economics*, 16: 121-160.

Books and book chapters

Bastianin A, Bigano A, Cattaneo C, Cassinelli, M, Cologni A, Manera M, Marazzi L, Markandya A., Pierfederici R, M. Plotegher M, and Sferra F. (2017), *Energy Governance, Institutions and Policies in the EU*, in M. Manera (ed.), *Energy Governance, Institutions and Policies in China and the EU*, FEEM Press, Milano (ISBN: 9788894170146)

Bigano A, Vogt J, Spinoni J, Perrels A, Crawford–Brown D, Kiviluoma J. (2017). *Section 5.4: Energy*. In: *European Environment Agency. Climate change impacts and vulnerability in Europe 2016. An indicator-based report*. vol. 1/2017, p. 244-253, Luxembourg: Publications Office of the European Union, Luxembourg, doi: 10.2800/534806

Bigano A, Fussel H-M, Perrels A, Pretenthaler, A (2017). *Section 5.6: Tourism*. In: *European Environment Agency. Climate change impacts and vulnerability in Europe 2016 An indicator-based report*. vol. 1/2017, p.263-266, Luxembourg: Publications Office of the European Union, ISBN:978-92-9213-835-6, doi: 10.2800/534806

Bigano A, Arigoni Ortiz, R, Markandya A, Menichetti M, Pierfederici R, (2011). The Linkages between Energy Efficiency and Security in Europe. In Galarraga, I., González-Eguino, M., Markandya, A. (eds.) *Handbook of Sustainable Energy*, Edward Elgar.

Markandya A, Bigano A, Porchia R, (eds.) (2010) *The Social Cost of Electricity: Scenarios and Policy Implications*, Edward Elgar Publishing.

Bigano A, Gorla A, Hamilton, J, Tol RSJ. (2005). The Effect of Climate Change and Extreme Weather Events on Tourism. In: Lanza A, Markandya A, Pigliaru F, (eds). *The Economics of Tourism and Sustainable Development*, Edward Elgar Publishing. Also available as *Fondazione Eni E. Mattei Working Paper* n. 30.05, Milan, Italy.

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