



## Europass Curriculum Vitae

### Personal information

First name / Surname **Enrica De Cian**  
Address Via Della Libertà 12, Porta dell'Innovazione, VEGA  
E-mail enrica.decian@cmcc.it / enrica.decian@unive.it  
Nationality Italian

**National Scientific Habilitation** Associate professor, full professor: 13/A2 (Politica Economica) 2014-2020

### Work experience

Dates 2017 – present  
Occupation or position held Associate professor  
Name and address of employer Ca' Foscari University of Venice, Italy

Dates 2018 – present  
Occupation or position held Research Scientist  
Name and address of employer RFF-CMCC European Institute on Economics and the Environment.

Dates 2008 – present  
Occupation or position held Research Scientist, Economic analysis of Climate Impacts and Policy Division  
Name and address of employer Fondazione CMCC - Centro Euro-Mediterraneo sui Cambiamenti Climatici - CMCC (Lecce, Italy)

Dates 2006– 2017  
Occupation or position held Senior Researcher, Climate Change and Sustainable Development Unit  
Name and address of employer Fondazione Eni Enrico Mattei – FEEM (Venice, Italy)

Dates 2012– October 2014  
Occupation or position held Marie Skłodowska-Curie International Outgoing Fellowship  
Name and address of employer Fondazione Eni Enrico Mattei – FEEM (Venice, Italy)

Dates October 2012 – October 2013  
Occupation or position held Marie Skłodowska-Curie International Outgoing Fellowship  
Name and address of employer Boston University, Department of Earth and Environment (MA, USA)

Dates January 2012 – March 2012  
Occupation or position held Collaboration within the SEEK project ClimTech: diffusion of Climate-Friendly Technologies. The Role of Intellectual Property Rights, Human Capital and Environmental Policy  
Name and address of employer ZEW (Mannheim, Germany)

Dates January 2004 – June 2004  
Occupation or position held Research assistant and stagier  
Main activities and responsibilities Research area: energy, climate change and sustainable development  
Name and address of employer Centre for European Policy Studies-CEPS (Brussels, Belgium) Leonardo program

## Education and training

Dates	29th September, 2008
Title of qualification awarded	Ph.D. in Economics and Organization – Dissertation Supervisor: C. Carraro
Principal subjects/occupational skills covered	Endogenous Technical Change and Climate Policy. Econometric Analysis and Stabilization Scenarios
Name and type of organisation providing education and training	Ca' Foscari University of Venice, Italy
Dates	September 2005 – June 2006
Principal subjects/occupational skills covered	Visiting student and researcher. Courses attended: International trade, economic growth, macroeconomics, public economics, dynamic optimization, environmental economics, energy and technology policy
Name and type of organisation providing education and training	Massachusetts Institute of Technology (MIT), Joint Programme on the Policy and the Science of Climate Change (JP), Centre for Environment and Energy Economics (CCEPR), Cambridge (MA, USA)
Dates	23rd November, 2003
Title of qualification awarded	Laurea (BSc, 4 years) Economics (Economia e Commercio) – Dissertation supervisor: C. Carraro
Principal subjects/occupational skills covered	International Trade and Climate Change: Comparing Trade Sanctions and No Regret Energy Policies. Summa cum laude.
Name and type of organisation providing education and training	Ca' Foscari University of Venice (Italy)
Dates	September 2001 – June 2002
Principal subjects/occupational skills covered	Socrates-Erasmus student Courses attended: Econometrics, international trade, development economics, international political economy, monetary economics
Name and type of organisation providing education and training	Faculty of Economics, University of Copenhagen (Denmark)

## Teaching experience as lecturer

2014– present	“Global Climate Change: Science, Economics and Policy” (40 hours), undergraduate, Boston University Study Abroad Venice, Environmental Program Studies
2008– present	“Methods and Tools for the Analysis of Climate Change Impacts and Policies” (12 hours), PhD Program in Science and Management of Climate change, Ca' Foscari University of Venice
2015	“Globalization, environment and sustainable development in coastal areas” (8 hours), Environmental Management in a Changing World: Coping with Sea Level Rise Summer School, Nicholas School of the Environment, Duke University, and Venice International University
2009–2011	“Environmental Policy” (20 hours), undergraduate, Ca' Foscari University of Venice
2009–2011	“Climate Change Economics” (40 hours), undergraduate, Ca' Foscari University of Venice

## Teaching experience as teaching assistant

2007–2008	“International Economics” (10 hours), undergraduate, Ca' Foscari University of Venice
2006–2007	“Topics in Macroeconomics” (10 hours), PhD, Ca' Foscari University of Venice
2006–2007	“Political Economy” (10 hours) and “Microeconomics” (10 hours), undergraduate, Ca' Foscari University of Venice

## Supervision of Master students

2018	Tutor Filippo Pavanello. Master thesis in Economics and Finance “Does climate influence households' thermal comfort decisions?”. Summa cum Laude
2014	Co-tutor of Alessandra Carta. Master's thesis: “Carbon sequestration from peat land in the Venice area”, University of Padua
2010	Tutor of Licia Ferranna. Master's thesis: “Technical Change in Economic Models for Climate Change”, Ca' Foscari University of Venice. The thesis was awarded a prize for the best dissertation in 2012 by the Fondazione Manlio Resta, <a href="http://www.fondazioneresta.it/Premiodilaurea2012/tabid/492/language/it-IT/Default.aspx">http://www.fondazioneresta.it/Premiodilaurea2012/tabid/492/language/it-IT/Default.aspx</a>

## Supervision of PhD students

- 2018-present Co-tutor of Francesco Colelli, PhD Candidate, PhD program Science and Management of Climate Change, Ca' Foscari University of Venice
- 2017-present Co-tutor of Paola Vesco, PhD Candidate, PhD program Science and Management of Climate Change, Ca' Foscari University of Venice
- 2014-2016 Co-tutor of Malcolm Mistry. PhD's thesis: "Impacts of Climate Variability on Global Crop Yields using a Statistical approach", PhD program Science and Management of Climate Change, Ca' Foscari University of Venice
- 2014-2015 Co-tutor of Fabio Farinosi. PhD's thesis: "Global changes and water: challenges for sustainable development", PhD program Science and Management of Climate Change, Ca' Foscari University of Venice

## Funding and Awards

- 2013 FEEM Research Paper Award for the most influential paper as measured by the AIS (Article Influence Score)
- 2012 Marie Skłodowska-Curie International Outgoing Fellowship "DYNamic feedbacks of climate impacts on current Adaptation and Mitigation Investment Choice". Outgoing host: Prof. Ian Sue Wing, Boston University. Returning host: Prof. Francesco Bosello, Fondazione Eni Enrico Mattei, EU FP7 funds.
- 2005 International Exchange Fellowship, Massachusetts Institute of Technology (MIT), the Joint Program on the Policy and the Science of Climate Change (JP) and the Centre for Environment and Energy Economics (CCEPR), Cambridge (USA)
- 2004 PhD Fellowship, Ca' Foscari University of Venice, Venice, Italy
- 2004 FEEM dissertation prize, Milan, Italy
- 2003 Leonardo EU Scholarship, Center for European Policy Studies, Brussels, 01/2004–04/2004
- 2001 Erasmus EU Scholarship, University of Copenhagen, Denmark, 09/2001 – 06/2002

## Fundraising – Funded Proposals

- 2017 ERC Starting Grant ENERGYA. Role: Principal investigator. Budget: 1,495,000Euro.
- 2017 COACCH, H2020. Role: Deputy coordinator. Budget: 4,999,000Euro.
- 2016 COP21RIPPLES, H2020. Role: team leader.
- 2015 PECE *Fuelling clean energy transitions: The political economy of energy innovation*, UNU-WIDER. Role: principal investigator.
- 2013 PATHWAYS, EU FP7 collaborative project, <http://www.pathways-project.eu/>. Role: team member.
- 2012 *DYNamic feedbacks of climate impacts on current Adaptation and Mitigation Investment Choice*, EU FP7 Marie Curie Project, <http://www.feem.it/getpage.aspx?id=5139&sez=Research&padre=18&sub=70&idsub=86&pj=Past>. Role: principal investigator.
- 2011 *ClimTech Climate-Friendly Technologies, The Role of Intellectual Property Rights, Human Capital and Environmental Policy*. SEEK project, <http://www.feem.it/getpage.aspx?id=4013&sez=Research&padre=18&sub=70&idsub=86&pj=Past>. Role: team member.
- 2010 AMPERE *Assessment of Climate Change Mitigation Pathways and Evaluation of the Robustness of Mitigation Cost Estimates*. Role: team member.
- 2009 PASHMINA *Paradigm Shifts Modelling and INnovative Approaches*. EU FP7 collaborative project. Role: team member.

## Peer-reviewed articles

- 1 Randazzo T.; De Cian E.; Mistry M. *Air conditioning and electricity expenditure: The role of climate in temperate countries* in **Economic Modelling**, vol. 90, pp. 273-287
- 2 Hof A.F.; Carrara S.; De Cian E.; Pfluger B.; van Sluisveld M.A.E.; de Boer H.S.; van Vuuren D.P. *From global to national scenarios: Bridging different models to explore power generation decarbonisation based on insights from socio-technical transition case studies* in **Technological Forecasting And Social Change**, vol. 151, pp. 119882
- 3 Yalew S.G.; van Vliet M.T.H.; Gernaat D.E.H.J.; Ludwig F.; Miara A.; Park C.; Byers E.; De Cian E.; Piontek F.; Iyer G.; Mouratiadou I.; Glynn J.; Hejazi M.; Dessens O.; Rochedo P.; Pietzcker R.; Schaeffer R.; Fujimori S.; Dasgupta S.; Mima S.; da Silva S.R.S.; Chaturvedi V.; Vautard R.; van Vuuren D.P. *Impacts of climate change on energy systems in global and regional scenarios* in **Nature Energy**, vol. 10.1038/s41560-020-0664-z
- 4 Vesco P.; Dasgupta S.; De Cian E.; Carraro C. *Natural resources and conflict: A meta-analysis of the empirical literature* in **Ecological Economics**, vol. 172, pp. 106633
- 5 Colelli, F., E. De Cian (2020). Cooling demand in integrated assessment models: a methodological review. DOI:10.1088/1748-9326/abb90a. pp.113005. In **Environmental Research Letters** - vol. 15 (11)
- 6 van Ruijven, B. J., E. De Cian, Sue Wing I (2019). Amplification of future energy demand growth due to climate change. **Nature Communications** Vol. 10, Article number: 2762 (2019)
- 7 Davide, M., De Cian, E., A. Bernigaud (2019). Building a Framework to Understand the Energy Needs of Adaptation. **Sustainability** 11(15), 4085; <https://doi.org/10.3390/su11154085>
- 8 De Cian, Enrica; Pavanello, Filippo; Randazzo, Teresa; Mistry, Malcolm; Davide, Marinella (2019) Households' adaptation in a warming climate. Air conditioning and thermal insulation choices in **Environmental Science & Policy**, vol. 100, pp. 136-157
- 9 Zelingher, Rotem; Ghermandi, Andrea; De Cian, Enrica; Mistry, Malcolm; Kan, Iddo (2019) Economic Impacts of Climate Change on Vegetative Agriculture Markets in Israel. **Environmental & Resource Economics**, vol. 72, pp. 1-18
- 10 De Cian, Enrica; Dasgupta, Shouro; Hof, Andries F.; van Sluisveld, Mariësse A. E.; Köhler, Jonathan; Pfluger, Benjamin; van Vuuren, Detlef P. (2018). *Actors, decision-making, and institutions in quantitative system modelling in Technological Forecasting And Social Change* <https://doi.org/10.1016/j.techfore.2018.10.004>
- 11 Dasgupta, S., De Cian, E. (2018). The influence of institutions, governance, and public opinion on the environment: Synthesized findings from applied econometrics studies. **Energy Research & Social Science**, vol. 43, pp 77-95, <https://doi.org/10.1016/j.erss.2018.05.023>
- 12 De Cian E, Sue Wing I (2017). Global Energy Consumption in a Warming Climate. **Environmental & Resource Economics**, doi: <https://doi.org/10.1007/s10640-017-0198-4>
- 13 Mistry, M. N., Sue Wing I., De Cian E. (2017). Simulated vs. empirical weather responsiveness of crop yields: US evidence and implications for the agricultural impacts of climate change, **Environmental Research Letters**, 12 075007. <https://doi.org/10.1088/1748-9326/aa788c>
- 14 De Cian, E., A. Hof, G. Marangoni, M. Tavoni, D. van Vuuren (2016). Alleviating inequality in climate policy costs: an integrated perspective on mitigation, damage and adaptation. **Environmental Research Letters**, 11 (2016) 074015.
- 15 Kriegler, E., I. Mouratiadou, G. Luderer, N. Bauer, R. J. Brecht, K. Calvin, E. De Cian, J. Edmonds, J. Kejun, M. Tavoni, O. Edenhofer (2016). Will economic growth and fossil fuel scarcity help or hinder climate stabilization? Overview of the RoSE multi-model study. **Climatic Change**, Vol. 136, pp 7-22.
- 16 Sue Wing I., De Cian E., (2014). Integrated assessment: Modelling agricultural adaptation. **Nature Climate Change News&Views**, Vol. 4, 535–536 (2014) doi:10.1038/nclimate2287
- 17 Parrado R., De Cian E., (2014). Technology spillovers embodied in international trade: Intertemporal, regional and sectoral effects in a global CGE framework. **Energy Economics**, Vol. 4, pp. 76-89. Superseded FEEM Working Paper n. 027, Milan.
- 18 Carraro C., De Cian E., Tavoni M. (2014). Human Capital, Innovation, and Climate Policy: An Integrated Assessment. **Environmental Modeling & Assessment**, Vol. 19, pp. 85-98. Superseded FEEM Working Paper No. 18, Milan.

- 19 De Cian E., Carrara S., Tavoni M. (2014). Innovation benefits from nuclear phase-out: can they compensate the costs? **Climatic Change**, Vol. 123 (3-4), pp. 637-650. Superseded FEEM Working Paper No. 096, Milan.
- 20 Voigt S., De Cian E., Schymura M., Verdolini E. (2013). Energy Intensity Developments in 40 Major Economies: Structural Change or Technology Improvement? **Energy Economics**, Vol. 41, pp. 47-62. <http://dx.doi.org/10.1016/j.eneco.2013.10.015>. Superseded FEEM Working Paper n. 038, Milan.
- 21 Bosello F., De Cian E. (2013). Climate Change, Sea Level Rise, and Coastal Disasters. A Review of Modeling Practice. **Energy Economics**, <http://dx.doi.org/10.1016/j.eneco.2013.09.002>. Superseded FEEM Working Paper n. 104, Milan.
- 22 De Cian E., Sferra, F., M. Tavoni (2013). The influence of economic growth, population, and fossil fuel scarcity on energy investments. **Climatic Change**, <http://dx.doi.org/10.1007/s10584-013-0902-5>. Superseded FEEM Working Paper No. 059, Milan.
- 23 Luderer G., Bertram C., Calvin K., De Cian E., Kriegler E. (2013). Implications of weak near-term climate policies on long-term climate mitigation pathways. **Climatic Change**, <http://dx.doi.org/10.1007/s10584-013-0899-9>.
- 24 Cherp A., Jewell J., Vinichenko V., Bauer N., De Cian E. (2013) Global Energy Security in Long-term Scenarios under Different Climate Policies, GDP Growth and Fossil Fuel Availability Assumptions. **Climatic Change**, <http://dx.doi.org/10.1007/s10584-013-0950-x>.
- 25 Calvin K., Pachauri S., De Cian E., and Mouratiadou I. (2013). The effect of African growth on future global energy, emissions, and regional development. **Climatic Change**, <http://dx.doi.org/10.1007/s10584-013-0964-4>.
- 26 Weyant, J., Knopf, B., De Cian E., Keppo I., van Vuuren D. (2013). Introduction to the EMF28 Study on Scenarios for Transforming the European Energy System, **Climate Change Economics**, Vol. 4 <http://dx.doi.org/10.1142/S2010007813500176>
- 27 De Cian E., Keppo I., Carrara S., Schumacher K., Förster H., Hübler M., Bollen J., Paltsev S. (2013). European-led climate policy versus global mitigation action. Implications on trade, technology, and energy. **Climate Change Economics**, Vol. 4 <http://dx.doi.org/10.1142/S2010007813400022>
- 28 Knopf B., Chen H., De Cian E., Förster H., Kanudia A., Karkatsouli I., Keppo I., Koljonen T., Schumacher K., van Vuuren D. (2013). Beyond 2020 - European strategies and costs for an energy system transformation. **Climate Change Economics**, Vol. 4 DOI:10.1142/S2010007813500176.
- 29 Förster H., Schumacher K., De Cian E., Hübler M., Keppo I., Mima S., Sands R.D. (2013) European energy efficiency and decarbonization strategies beyond 2030 – A sectoral multi-model decomposition. **Climate Change Economics**, Vol. 4 <http://dx.doi.org/10.1142/S2010007813500176>.
- 30 Bosetti V., De Cian E. (2013). A Good Opening: The Key to Make the Most of Unilateral Climate Action. **Environmental and Resource Economics**, Vol. 56, pp. 255-276. Superseded FEEM Working paper No. 69, Milan.
- 31 Bosetti V., Carraro C., De Cian E., Massetti E., Tavoni M. (2013). Incentives and Stability of International Climate Coalitions: An Integrated Assessment. **Energy Policy**, Vol. 55, pp. 44–56. Superseded FEEM Working paper No. 097, Milan.
- 32 Bosello F., Carraro C., De Cian E. (2013). Adaptation Can Help Mitigation: An Integrated Approach to Post-2012 Climate Policy. **Environmental and Development Economics**, Vol 18, pp. 270–290. Superseded FEEM Working paper No. 069, Milan.
- 33 De Cian E., Lanzi E., Roson R., (2013). Seasonal temperature variations and energy demand A panel cointegration analysis for climate change impact assessment. **Climatic Change**, Vol. 116, pp. 805-825.
- 34 Carraro C., De Cian E. (2013). Factor-augmenting technical change: an empirical assessment, **Environmental Modeling & Assessment**, Vol. 8 (1), pp. 13-26. Superseded FEEM Working Paper No. 018, Milan.
- 35 Tavoni M., De Cian E., Luderer G., Steckel J., Waisman H. (2012). The value of technology and of its evolution towards a low carbon economy. **Climatic Change**, Vol. 114, pp. 39-57.
- 36 Luderer G., De Cian E., Hourcade J.C., Leimbach M., Edenhofer O. (2012). On the regional distribution of mitigation costs in a global cap-and-trade regime. **Climatic Change**, Vol. 114, pp. 59-78.
- 37 De Cian E., Bosetti V., Tavoni M. (2012). Technology innovation and diffusion in less than ideal climate policies. An assessment with the WITCH model. **Climatic Change**, Vol. 114, pp. 121-143.
- 38 De Cian E., Tavoni M. (2012). Can technology externalities justify carbon trade restrictions? **Resource and Energy Economics**, Vol. 34, pp. 624– 646.
- 39 De Cian E. and Tavoni M. (2012). Mitigation portfolio and policy instruments when hedging against climate policy and technology uncertainty, **Environmental Assessment and Modelling**, Vol. 17 (1-2), pp. 123-136.

- 40 Agrawala S., Bosello F., Carraro C., De Cian E., Lanzi E., De Bruin K., Dellink R. (2011). PLAN or REACT? Analysis of adaptation costs and benefits Using Integrated Assessment Models. **Climate Change Economics**, Vol.2, pp. 1-36.
- 41 Agrawala S., Bosello F., Carraro C., De Cian E., Lanzi E. (2011). Adapting to Climate Change: Costs, Benefits, and Modelling Approaches. **International Review of Environmental and Resource Economics**, Vol.5, pp. 245- 284. <http://dx.doi.org/10.1561/101.00000043>
- 42 Bosello F., Carraro C., De Cian E. (2010). Climate Policy and the Optimal Balance between Mitigation, Adaptation and Unavoided Damage. **Climate Change Economics**, Vol. 1, pp. 71–92.
- 43 Carraro C., De Cian E., Nicita L., Massetti E., Verdolini V. (2010) Environmental Policy And Technical Change: A Survey. **International Review of Environmental and Resource Economics**, Vol. 4, pp. 163–219.

## Books

- 44 Campagnolo Lorenza; De Cian Enrica *Can the Paris Agreement Support Achieving the Sustainable Development Goals?* in Campagnolo Lorenza, De Cian Enrica, Ancillary Benefits of Climate Policy, Springer Climate, pp. 15-50 (ISBN 978-3-030-30978-7)
- 45 Dasgupta, S., De Cian, E., Verdolini, E. (2018). The Political Economy of Energy Innovation in Shouro Dasgupta, Enrica De Cian, Elena Verdolini, The Political Economy of Clean Energy Transitions, Oxford University Press, pp. 123-143 (ISBN 9780198802242)
- 46 Watkiss P., Baarsh F., Kingsmill N. (2016) The Costs of Adaptation, Contributing author. In “The Adaptation Finance Gap Report 2016”, United Nations Environment Programme (UNEP), Nairobi.
- 47 De Cian, E. (2014). “Adaptation and mitigation. What is the optimal balance?”. In V. Bosetti et al, eds., Climate Change Mitigation, Technological innovation and adaptation, Edward Elgar [ISBN: 9781 84980 949 8]
- 48 Bosello F., Carraro C., De Cian E. (2013). “An Analysis of Adaptation as a Response to Climate Change”. In B. Lomborg, ed., Global Problems, Smart Solutions Costs and Benefits, Cambridge University Press, Cambridge [ISBN: 978 1 10761 221 1]
- 49 Carraro C. , De Cian E., Nicita L. (2010). “Modeling Biased Technical Change. Implications for Climate Policy”, in S. Dietz, J. Michie and C. Oughton (eds), The Political Economy of the Environment , Routledge, London. [ISBN: 978 0 415 43753 0].
- 50 De Cian E., Kernohan D. (2007). “Trade, the Environment and Climate Change: Multi-lateral versus Regional agreements” in Climate and Trade Policy. Bottom-up approaches towards a global climate agreement, C. Carraro and C. Egenhofer (eds.) [ISBN:978 1 84720 227 7]

## Personal skills and competences

Mother tongue **Italian**

Other language **English**

Self-assessment	<b>Reading</b>	<b>Speaking</b>	<b>Writing</b>
<i>European level (*)</i>	C2	C2	C2

(\*) [Common European Framework of Reference for Languages](#)

Computer skills and competences STATA, R, GAMS, LATEX, MICROSOFT OFFICE

## Affiliations

2006 - Present EAERE, European Association of Environmental and Resource Economists

2013 - Present SISC, Società Italiana per le Scienze del Clima, [www.sisclima.it](http://www.sisclima.it)