

## Curriculum Vitae Dr. Erica Cacciotti

### Personal

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### Main areas of interest:

- ✓ Green Manager for audiovisuals production;
- ✓ Impact of climate and land use change on GHGs
- ✓ Assessment and measurement of CO<sub>2</sub> emissions from soils

### Currently

- ✓ **Sustainability and HSE senior consultant** at ERGO srl - TECNO Group
- ✓ Auditor for: ISO 14001, 19011, 9001;

### Education

- ✓ **Ph.D. in Environmental Science** on "*The impact of climate and land-use change on soil respiratory fluxes*" from terrestrial ecosystems under several natural and anthropological stress;  
(May, 2013). Supervisor: Bruce Osborne, Professor of Plant Ecophysiology at School of Biology and Environmental Science, UCD, Dublin, Ireland.
- ✓ **Environmental Science Master Degree** (marks: 110/110) on terrestrial ecosystems;  
Thesis title: "***Combat Desertification in a context highly exposed to wind erosion (the north of China) by using a new technology (Eddy covariance technique) for the assessment of soil dust particles lost during storms. Possible actions in containing sand storms***". Thesis data collected in China in Spring/Summer 2005 within the International Cooperation Project WINDUST.  
Supervisors: Riccardo Valentini and Maurizio Severini.  
Tuscia University, Faculty of Environmental Sciences, Viterbo, Italy. (July 2006)

## Relevant International Experiences

- ✓ **Logistics and Communication Officer Support for the CSIPM** (Civil Society and Indigenous People Mechanism) Secretariat at FAO Headquarters (September-October 2015).
- ✓ **IPCC consultant for the implementation of the EFDB** (Emission Factor Database). Review of recent literature and extraction of useful data for national greenhouse gas (GHG) inventory compilation. This work was carried out fully remote on Cropland, Grassland, Wetland and Settlement categories in the Land Use, Land-use Change and Forestry (LULUCF) Sectors. IGES Institute (Japan). (July-November 2013).
- ✓ **Four years of research experience in Ireland** on the impact of climate and land-use change in terrestrial ecosystems. Project sponsored by the Irish EPA. *Main activities*: three years of fieldwork, analysis of data, preparation of reports and publications, oral and poster presentation at national and international conferences. (2008-2012)
- ✓ **Participation at the International Cooperation Project “Windust”, in China** (Inner Mongolia), to collect raw data in the Gobi Desert Plateau. Project sponsored by Ministero dell’Ambiente e Tutela Del Territorio Italiano, Beijing Municipality and the UNCCD. *Main Activities*: logistic and communication support, collection of soil/air/botanical raw data, instruments management. Main aims of this work were: to estimate the net flux of dust from dry soils in order to study the impact of sand storm on different soil types and also (2) to understand the role of native vegetation on soil protection (April-July, 2005).

## Relevant work and other collaboration experiences

- ✓ **Senior sustainability and HSE consultant at ERGO srl - TECNO Group**
- ✓ **Administrative Management Officer** at the Civil and Industrial Engineering Department of the University of Pisa. (01<sup>st</sup> February 2023 - ongoing).
- ✓ **Administrative Management Officer** at the Information Engineering Department of the University of Pisa. (15<sup>th</sup> April 2021 - 31<sup>st</sup> January 2023).
- ✓ **Administrative Management Officer** of the International Master in Risk Management at the Economy and Management Department of the University of Pisa. (27<sup>th</sup> August 2018 – 14<sup>th</sup> April 2021).
- ✓ **Research fellow** at the Technology Transfer Office (TTO) of the University of Pisa. Support for two programs dedicated to innovation, the PhD Plus and the Contamination Lab Projects, both dedicated to the development of new and innovative ideas by Unipi students and researchers (19 July 2017–26 August 2018).
- ✓ **Post Doc** at the TTO of the University of Pisa to work on the valorization of innovative research in the agro-food and life science sectors. (17<sup>th</sup> October 2016–18<sup>th</sup> July 2017).
- ✓ **Science professor** and student tutor at the “Midossi” artistic High School (February-June 2016).
- ✓ **Ismea consultant** for the review and homogenization of graphs and tables of the “Bio in cifre” publication (January 2016).
- ✓ **Researcher** at the Tuscia University on the soil carbon stock under Italian forests (February 2013-February 2014).

- ✓ **In the EPSO/CAST/S/5/2013** of the European Commission as Researcher in the Agricultural, Environmental and Earth Sciences (online test - September 2013).
- ✓ **Preparation of reports and tutoring** activity for 4<sup>th</sup> year students carrying out their thesis on GHG and CO<sub>2</sub> emissions from soils (2009-2011).
- ✓ **Professor assistant** during practical and laboratories activities for different courses: soil science, GIS, biology, botany and ecophysiology (2009-2011).
- ✓ **Editor of a didactic kit to create awareness about the meaning of “desertification”**, for high school teachers and universities students. Project promoted and financed by the NGO “Ricerca e Cooperazione”. Rome (July-September 2008).
- ✓ **Collaboration with the NGO “Ricerca e Cooperazione”** for the development and implementation of environmental education and cooperation projects financed by Ministry for Foreign Affairs and the European Commission. Rome (2008).
- ✓ **Internship at ECOUNESCO** to support the development, organization and implementation of workshops on sustainable development, renewable energies, water management and nature conservation. Dublin, Ireland (September 2007 – January 2008).
- ✓ **Environmental educator onboard** travelling one month by ferry on the Mediterranean Sea. In 17<sup>th</sup> Italian ports local schools were invited onboard and trained on environmental issues. (September 2007).
- ✓ Participation in the realisation of a **database on spontaneous and agricultural vegetation** of all Italian regions. Project promoted by Bioversity International (ex IPGRI) with the purpose to collect information on neglected Mediterranean species otherwise forgotten. Project title “Back to the Future: youth creativity for tradition, nutrition and biodiversity”. Rome, Italy (November-December, 2006).
- ✓ **Environmental educator in organic farming:** environmental workshops for young students on nature conservation, ecology, biodiversity. Collevale AgriNatura, Bomarzo (Vt), Italy (2004-2005).

## Grants

- ✓ Tuscany Region Research Scholarship on the multidisciplinary research “Intellectual Property Innovation (IP-INN)” at University of Pisa and Maastricht University. Pisa, 19 July 2017 - 18 January 2020. (48000 €).
- ✓ Department of the Environment, Community and Local Government, through the Environmental Research Sub-Programme of the National Development Plan 2007-2013 travel grant for SCS (Soil Carbon Sequestration conference) Iceland. 2013.(1000 €).
- ✓ Tuscia University grant for one-year research on the carbon stocks in Italian forest ecosystems and the impact of natural forest invasion of abandoned grassland on soil carbon stocks. 2013. (13000 €).

- ✓ EPA grant for the PhD on the “impact of climate and land use change on soil respiratory fluxes” from grassland and forests ecosystems. Ireland. 2008 (66000 €).
- ✓ European Community’s Action Program grant for the Life Long Learning Program (Leonardo Da Vinci) in Ireland at the ECOUNESCO (The Irish Environmental Conservation Organization for Youth). 2007.
- ✓ Lazio Region grant for the Scientific Internship Program at the NGO “Ricerca e Cooperazioone”, Rome, Italy. (6000 €).
- ✓ University of Tuscia grant for the Erasmus Program in Spain, Madrid at UAM (Universidad Autonoma de Madrid). 2003.

## Monographs

- ✓ Cacciotti E., 2012. The impact of climate and land use change on soil respiratory fluxes. PhD thesis. University College Dublin, Ireland
- ✓ Cacciotti E., 2006. Wind erosion and desertification processes: the application of a new technology to measure PM<sub>7</sub> soil particles fluxes in the Gobi desert Plateau. Master thesis. Tuscia University, Italy.

## Conferences & Publications

- ✓ M. Saunders, B. Tobin, C. Sweeney, M. Gioria, G. Benanti, **E. Cacciotti** and B.A. Osborne (2014). Impact of extreme inter-annual climatic differences on the net ecosystem carbon dioxide exchange of a Sitka spruce forest. *Agricultural and Forest Meteorology* 184, 147-157.
- ✓ Saunders M., Tobin B., Gioria M., Benanti G., **Cacciotti E.** and Osborne B.A.: “Impact of extreme inter-annual climatic differences on the net ecosystem carbon dioxide exchange of a Sitka spruce forest”. EGU 2013 - European Geosciences Union General Assembly 2013, Austria Center Vienna (ACV), Vienna, 07 - 12 April 2013.
- ✓ **Cacciotti E.**, Benanti G., Saunders M., Otero S., Tobin B. and Osborne B.A.: “*Soil rewetting and the “Birch effect” in different ecosystems*”. EGU 2011 – European Geosciences Union General Assembly 2011, Austria Center Vienna (ACV), Vienna, 03 – 08 April 2011.
- ✓ Benanti G., **Cacciotti E.**, Saunders M. Otero S., Tobin B. and Osborne B.: “*Land use change and re-wetting effects on GHG emissions*”. GHG-Europe Annual Meeting 2011, Johann Heinrich von Thünen-Institut (vTI), Forum Bundesallee 50, 38116 Braunschweig, Germany, 28- 31 March 2011.
- ✓ **Cacciotti E.**, Saunders M. and Osborne B.: “*The effect of climate and land use change on soil respiratory fluxes*”. IPSAM Conference - Irish Plant Scientists’ Association Meeting, University College Dublin, Dublin, 2<sup>nd</sup>-4<sup>th</sup> June 2010.

## Poster presentations

- ✓ **Cacciotti E.**, Saunders M., Tobin B. and Osborne B.: “*The impact of climate and land use change on soil respiratory fluxes*”. SCS Conference, Reykjavik, Iceland 26<sup>th</sup>-29<sup>th</sup> May 2013. <http://scs2013.land.is/wp-content/uploads/SCS2013.pdf>
- ✓ Benanti G., **Cacciotti E.**, Saunders M., Otero S., Tobin B. and Osborne B.: “*Land use change and re-wetting effects on GHG emissions*”. GHG-Europe Annual Meeting

2011, Johann Heinrich von Thünen-Institut (vTI), Forum Bundesallee 50, 38116 Braunschweig, Germany, 28- 31 March 2011.

- ✓ **Cacciotti E.**, Saunders M. and Osborne B.: *“The effect of climate and land use change on soil respiratory fluxes in central Ireland”*. 8<sup>th</sup> Annual EPA Postgraduate Seminar, Convention Centre, Dublin, 11<sup>th</sup> November 2010.
- ✓ **Cacciotti E.**, Saunders M., Tobin, B. and Osborne B.: *“The effect of climate and land use change on soil respiratory fluxes”*. 19<sup>th</sup> World Congress of Soil Science, Soil Solutions for a Changing World, Brisbane Australia, 1-6 August 2010. Published on DVD.
- ✓ **Cacciotti E.**, Saunders M. and Osborne B.: *“The effect of climate and land use change on soil respiratory fluxes in central Ireland”*. A Climate for Change – Opportunities for Carbon-efficient farming, Teagasc, Dublin, 24-25 June 2010.
- ✓ Benanti G., **Cacciotti E.**, Helmy M., Saunders M. and Osborne B.: *“Impact of land-use change on greenhouse gas emission”*. Agmet, 25 years supporting Agricultural Meteorology in Ireland, The Coach House, Dublin Castel, Dublin, 7<sup>th</sup> December 2009.

### Workshops and courses attended

- ✓ Torino Film Lab of the Green Production Lab 2025: "The application of sustainability to the audiovisual production", El Prat de Llobregat, Barcelona, Spain, January 2025;
- ✓ Certificated auditor for the following: ISO 14001, 19011 and 9001, Riina, 2024;
- ✓ “The technology transfers and the Third Mission of Universities and public research centers”, 18-19 October 2016, at the UIBM (Ufficio Italiano Brevetti e Marchi) and MISE (Ministero Italiano Sviluppo Economico), Rome.
- ✓ “Elements of industrial property protection and instruments for anteriority research” organized by JoTTO (Joint Technology Transfer Office) of the Scuola Superiore Sant’Anna, Scuola Normale Superiore and Scuola IMT Alti Studi of Lucca. 22<sup>nd</sup> December 2016, Scuola superior Sant’Anna, Pisa.
- ✓ CLIMMANI workshop: “Climatic change – manipulation experiments in terrestrial ecosystems”. European Science Foundation, Research Networking Programme, Sweden, Umeå, Vindeln, 21<sup>st</sup> – 24<sup>th</sup> June 2010

### Languages

- ✓ Italian (mother tongue)
- ✓ English: excellent (oral and written)
- ✓ Spanish: good (oral and written)