

CURRICULUM VITAE ET STUDIORUM

Personal details

Elena PAOLETTI, born in Firenze on 11.01.1963, private address: Via Stibbert 9, 50134, Firenze
Tel.+390553298061717; job address: IPSP-CNR, Via Madonna del Piano 10, 50019 Sesto Fiorentino,
Italy Tel +390555225591 Fax +390555225666 Email elena.paoletti@cnr.it

Married with Enrico Marchi, associate professor at the School of Forest Science, University of
Florence, Italy

Mother of two kids, Emilio (1996, 5-month maternity leave) and Emma (1999, 5-month maternity
leave)

Three months of disease leave in 2012

Present position

CNR Research Director since 01/01/2010, ID No. (matricola) 1692, Institute of Research on Terrestrial
Ecosystems (IRET), Sesto Fiorentino (Firenze), Italy

Education

- 1994 –1995: post Doc, Institute of Forest and Agricultural Pathology and Zoology, University of
Firenze
- 1988-1991: PhD in Agricultural Biology, Department Plant Biology, University of Firenze
- 21.07.1987: Laurea magistrale (degree+MSc) in Forest Science, University of Firenze, 110/110
cum laude

Career

- 2014: Habilitation (DD n. 222/2012) to full professor (Abilitazione scientifica nazionale, prima
fascia) in the sector 07 B2 Science and Technology of Tree and Forest Systems
- 2014: Habilitation (DD n. 222/2012) to full professor (Abilitazione scientifica nazionale, prima
fascia) in the sector 07 D1 Plant Pathology and Entomology
- 24 February 2014: Shortlisted for the position of Director of the Institute for the valorization of
wood and tree species (IVALSA) of the National Research Council (CNR), call 364.151
- 20 February 2014: Shortlisted for the position of Director of the Institute for the sustainable
protection of plants (IPSP, formerly IPP) of the National Research Council (CNR), call 364.170
- 13 Nov 2012 – 20 April 2017: Head Lab of Environmental Monitoring, IPSP-CNR, Firenze
- 01.01.2010 – present: CNR Research Director, IPSP-CNR, Firenze
- 2009 – 2014: Member and Secretary of IPP-CNR Scientific Council
- 2009 – 2013: IPP responsible of the CNR Campus Experimental Fields
- 12 May 2004 - present: Head Lab of Ecophysiology, IPSP-CNR, Firenze
- 12 May 2004 - 2007: Head Lab of Scanning Microscopy, IPP-CNR, Firenze
- 31 Dec 2001 – 31 Dec 2009: CNR First Researcher, IPP-CNR, Firenze
- 3 Sept. 2001 – 30 Dec. 2001: CNR research fellow, Institute Forest Tree Pathology, CNR, Firenze
- 01.01.1996 – 02.09.2001: CNR researcher by contract (art. 36), Institute Forest Tree Pathology,
CNR, Firenze
- 1992 - 1994: CNR RAISA grant fellow, Centro di Studio per la Patologia delle Specie Legnose
Montane, CNR, Firenze

Position in scientific societies and international organisations

- 2020-present: vice-representative for Italy in the IUFRO International Council

- 2019-2024: IUFRO President's nominee as Chair of the Honors and Awards Panel (member of the IUFRO Board)
- 2019-2024: member of the Management Committee of the IUFRO Board
- 2019-present: Deputy Coordinator of the IUFRO Division 8 Forest Environment
- 2017 – 2019: Chair of the Scientific Advisory Board of the European Forest Institute (EFI)
- 2016 – 2019: Vice President of the Italian Society of Silviculture and Forest Ecology (SISEF)
- 2016 - 2019: Member SISEF Executive Committee
- 2015-2018: Coordinator IUFRO Task Force on Climate Change and Forest Health
- 2015 - present: Member of the Scientific Advisory Board of the European Forest Institute (EFI)
- 2015 – 2020: Member of the Steering Committee of the *International Global Atmospheric Chemistry (IGAC) activity Tropospheric Ozone Assessment Report (TOAR): Global metrics for climate change, human health and crop/ecosystem research* (www.igacproject.org)
- 2014 - 2019: Member of the extended IUFRO Board
- 2014 - 2019: Coordinator Research Group IUFRO 7.01.00 'Impacts of Air Pollution and Climate Change on Forest Ecosystems'
- 2014 – present: Member of the *Tropospheric Ozone Assessment Report (TOAR): Global metrics for climate change, human health and crop/ecosystem research*, Activity of the International Global Atmospheric Chemistry Project (IGAC), approved by the IGAC Scientific Steering Committee on March 13, 2014 (www.igacproject.org)
- 2012 - 2015: Secretary of the Italian Society of Silviculture and Forest Ecology (SISEF)
- 2010 - 2014: Deputy Coordinator Research Group IUFRO 7.01.00 'Impacts of Air Pollution and Climate Change on Forest Ecosystems'
- 2008 – 2011: SISEF Vice President
- 2008 - 2011: Member SISEF Executive Committee
- 2006 - 2010: Member Steering Group Network of Excellence “Ozone risk assessment: To further develop and validate the flux concept for the prediction of ozone impact on vegetation”
- 2001 - 2010: Coordinator Research Group IUFRO 7.01.00 'Impacts of Air Pollution and Climate Change on Forest Ecosystems'
- 30 Oct 1998 – April 2016: coordinator SISEF Working Group Pollution and Forests
- 1997 – 2000: member IUFRO Task Force 'Environmental Change'
- 1996 – 2001: Deputy Chairman Working Party IUFRO 7.04.02 'Biochemical and physiological aspects of air pollution effects on forest ecosystems'

Awards

- 2019, IUFRO Scientific Achievement Award (SAA)
- 2015, Elsevier Reviewer Recognition Award for Science of the Total Environment
- 2010, IUFRO Forest Health Award 2010 for Achievement in Forest Health Research
- 2010, CNR AgroFood Department Award 2010 for excellence in sustainable agriculture
- 2010, Elsevier award for a paper among the "Top-50 most cited articles" as published in *Environmental Pollution* 2007-2010: R. Matyssek*, A. Bytnerowicz, P.-E. Karlsson, E. Paoletti, M. Sanz, M. Schaub, G. Wieser - Promoting the O₃ flux concept for European forest trees. *Environmental Pollution*, 146, 3 (2007), 587-607
- 2010, Elsevier award for a paper among the "Top-50 most cited articles" as published in *Environmental Pollution* 2007-2010: A. Bytnerowicz, K. Omasa, E. Paoletti* - Integrated effects of air pollution and climate change on forests: A northern hemisphere perspective. *Environmental Pollution*, 147, 3 (2007), 438-445

- 2009, Best poster award, 22nd conference of the IUFRO RG 7.01.00 in Riverside, USA, 'Differences in the structural reactions for leaves exposed to elevated levels of controlled versus ambient ozone in *Fraxinus ornus*' by Petra Bernasconi, Pierre Vollenweider, Elena Paoletti and Madeleine S Guenthardt Goerg
- 2004, Outstanding Contribution Award for contribution to the 6th International Symposium on Plant responses to Air Pollution and Global Changes, Tsukuba, October 2004

Main visits or field campaigns (total period abroad: 277 days)

- *November-December 2019 (30 days)*: invited visiting professor, Chinese Academy of Science, Beijing, China (Ozone impacts on Chinese forests). Source: CAS President's International Fellowship Initiative (PIFI) (2016VBA057 project code).
- *February-March 2017 (30 days)*: invited visiting professor, Chinese Academy of Science, Beijing, China (Ozone impacts on Chinese forests). Source: CAS President's International Fellowship Initiative (PIFI) (2016VBA057 project code).
- *October-November 2016 (30 days)*: invited visiting professor, Chinese Academy of Science, Beijing, China (Ozone impacts on Chinese forests). Source: CAS President's International Fellowship Initiative (PIFI) (2016VBA057 project code).
- *March-April 2016 (30 days)*: invited visiting professor, Chinese Academy of Science, Beijing, China (Ozone impacts on Chinese forests). Source: CAS President's International Fellowship Initiative (PIFI) (2016VBA057 project code).
- *February 2015 (7 days)*: invited visiting professor, Hokkaido University, Sapporo, Japan (Air pollution and climate change impacts on water control in forest ecosystems). Source: The top-lab collaboration project of the School of Agriculture, Hokkaido University
- *January 2015 (2 days)*: invited visiting scientist, PLECO, Antwerpen University, Belgium (Ozone and forest trees). Source: Center of Excellence PLECO
- *November 2014 (15 days)*: invited visiting scientist, Hokkaido University, Sapporo, Japan (Free-air study of ozone impacts on water control in forest trees). Source: Japan Society for the Promotion of Science grant FY2014 (S14745).
- *April 2012 (7 days)*: invited visiting scientist, Chinese Academy of Forestry, Beijing, China, (Monitoring tropospheric ozone at remote sites in China). Source: CNR-CAF bilateral agreement
- *November 2011 (21 days)*: visiting scientist, Kiel, Germany, (Effects of ozone exposure on short-term stomatal dynamics). Source: CNR short-term mobility grant
- *May 2010 (7 days)*: invited visiting scientist, University of Tokyo, Japan (Ozone and trees). Source: Japanese Society for the Promotion of Science
- *December 2009 (7 days)*: invited visiting scientist (Ozone and forests). Source: Chinese Academy of Forestry, Beijing, China
- *February 2009 (21 days)*: visiting scientist, USDA Forest Service Riverside, CA, USA (Ozone response curves in tolerant and sensitive species). Source: CNR short-term mobility grant
- *July 2007 (21 days)*: visiting scientist Technische Universität München, Lehrstuhl für Ökophysiologie der Pflanzen, Freising, Germany (Leaf-level ozone uptake in beech trees in open-air exposure). Source: CASIROZ EVK2-2002-00165
- *Sept 2007 (7 days)*: visiting scientist, Turkey (Forest education). Source: CNR training grant
- *2006 (several visits over the growing season)*: visiting scientist, JRC Ispra, Italy (Stomatal ozone flux by open-top chambers). Source: JRC-CNR
- *2006 (several visits over the growing season)*: visiting scientist, Lecceto, Siena, Italy (Stomatal ozone flux by eddy correlation). Source: CNR

- *March 2005 (21 days)*: visiting scientist, USDA Forest Service Riverside, CA, USA (Calculated vs. measured stomatal ozone flux). Source: CNR short-term mobility grant
- *2005 (several visits over the growing season)*: visiting scientist, Turin, Italy (Ethylenediurea protects adult ash trees from ambient ozone effects). Source: Interreg Medocc
- *Feb 2003 (21 days)*: visiting scientist, Dept Plant Science, University of Messina (Prof. M.A. Lo Gullo) (Hydraulics of trees). Source: CNR training grant
- *Dec 1995 (21 days)*: visiting scientist, Technische Universität München, Lehrstuhl fuer Forstbotanik, Freising, Germany (Phytophthora analyses). Source: CNR training grant

Visitors

- *November 2019 (5 days)*: Shuo LIU, Jinlong PENG, Yansen XU, Tingjian HU, Qin PIN and Zhengzhen LI, Plant responses to ozone (Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences. Source: CNR-CAS bilateral agreement 2017-2019
- *September 2019 (3 weeks)*: Geane Martins (Instituto de Botânica de São Paulo, Brazil), Responses of a vine species (*Passiflora edulis*) to ozone stress. Source: FAPESP PDIP 2017/50341-0
- *August 2019 – February 2020 (6 months)*: Beery Phempoon (King Mongkut's University of Technology Thonburi, Bangkok, Thailand) Effects of plant growth promoting bacteria on plant tolerance to ozone. Source: University KMUTT scholarship
- *June – November 2019 (6 months)*: Marcela Engela (Instituto de Botânica de São Paulo, Brazil), Responses of a vine species (*Passiflora edulis*) to ozone stress. Source: FAPESP PDIP 2017/50341-0
- *August 2019 (3 days)*: Claudia Furlan (Instituto de Botânica de São Paulo, Brazil), Responses of a vine species (*Passiflora edulis*) to ozone stress. Source: FAPESP PDIP 2017/50341-0
- *July 2019 (1 week)*: Emerson Alves da Silva (Instituto de Botânica de São Paulo, Brazil), Responses of a vine species (*Passiflora edulis*) to ozone stress. Source: FAPESP PDIP 2017/50341-0
- *March 2019 (1 week)*: Valda Araminiene (Lithuanian Research Center for Agriculture and Forestry, Kedainiai, Lithuania), Urban trees and ground-level ozone. Source: Research Council of Lithuania program 'Funding of research visits'
- *June – September 2017 (4 months)*: Marisia Esposito, Francine Fernandes, Marcela Engela (Instituto de Botânica de São Paulo, Brazil), Responses of a vine species (*Passiflora edulis*) to ozone stress. Source: Fundação de Desenvolvimento da Pesquisa do Agronegócio – FUNDEPAG
- *June 2016-2017 (1 year)*: Prof. Lu Zhang (Northeast Agricultural University, Harbin, China), Effects of free-air ozone exposure on poplar with nitrogen and phosphorus addition. Source: China Scholarship Council (CSC) grant No 201606615002
- *July 2015 (15 days)*: Prof. Rafael Vasconcelos Ribeiro (University of Campinas, San Paulo, Brazil), Ozone effects on sugarcane. Source: FAPESP, Research Internships Abroad (BEPE)
- *July 2015 (1 month)*: Ms. Fernanda Castro Correia Marcos (University of Campinas, San Paulo, Brazil), Ozone effects on sugarcane. Source: FAPESP, Research Internships Abroad (BEPE)
- *May 2015 (9 months)*: Dr. Barbara Besso Moura (University of Campinas, San Paulo, Brazil), Ozone effects on sugarcane. Source: FAPESP/BEPE 2014/23839-9, Research Internships Abroad
- *April 2013 (2 years)*: Dr. Yasutomo Hoshika (Graduate School of Agricultural and Life Sciences, The University of Tokyo, Japan), Measuring and modelling stomatal ozone uptake. Source: Japanese Society for the Promotion of Science
- *November 2012 (10 days)*: Miss. Diana Silaghi (Forest Research and Management Institute, Voluntari, Romania), Calculating stomatal ozone fluxes at ICP-Forests sites in Romania. Source: COST Action FP0903

- *June 2012 (10 days):* Dr. Alina Danielewska (Meteorology Department, Poznan University of Life Sciences, Poznan, Poland), Is ozone affecting the growth of Italian forests? Source: COST Action FP0903
- *February 2012 (1 month):* Miss. Petya Parvanova (Institute of Biodiversity and Ecosystem Research, Bulg. Acad. Sci., Sofia, Bulgaria), Stomatal responses to short-term ozone exposure. Source: WETLANET (FP7 project)
- *October 2011 (1 month):* Miss. Petya Parvanova (Institute of Biodiversity and Ecosystem Research, Bulg. Acad. Sci., Sofia, Bulgaria), Stomatal responses to short-term and long-term ozone exposure. Source: COST Action FP0903
- *September 2011 (1 week):* Miss. Marina Katanic (Institute of lowland forestry and environment, Novi Sad, Serbia), Mycorrhizal status of polar exposed to ambient ozone and treated by ethylenediurea. Source: COST Action FP0903
- *September 2011 (3 weeks):* Prof. Shang He (Chinese Academy of Forestry, Beijing, China), Monitoring tropospheric ozone at remote sites in China. Source: CNR-CAF bilateral agreement
- *September-October 2011 (2 months):* Dr. Nurgul Karlioglu (Istanbul University, Turkey), Stomatal responses to climate and pollution. Source: COST Action FP0903
- *May 2011 + August 2011 (7+10 days):* Dr. Valasia Iakovoglou (Technological Educational Institute of Kavala, Drama, Greece), Responses of the transgenic lines of *P. tremula* x *P. tremuloides* and *Populus alba* exposed to ozone. Source: COST Action FP0905
- *September-December 2010 (3 months):* PhD Dr. Yasutomo Hoshika (Graduate School of Agricultural and Life Sciences, The University of Tokyo, Japan), Ozone and stomatal conductance. Source: Japanese Society for the Promotion of Science
- *June 2008 (3 weeks):* Prof. William J. Manning (Amherst University, MA, USA), Ethylenediurea and ozone interactions in ozone protection. Source: CNR short-term mobility grant

Interactions with policy and decision makers

- 2017, co-author of a report on Urban Greening for the Italian Parliament
- 2016, Forest and woodland section of the EUNIS habitats classification, EIONET Forum
- 2015-present, Member, Silva Mediterranea Working Group on Urban and peri-urban forestry, FAO
- 2004, Scientific consultant, REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents
- 2003-, Member, ICP-Vegetation, UNECE
- Organisers of 8 events for bridging science and policy
 - Program Chair, side event 'Healthy forests for a prosperous environment: the multi-faceted aspects of forest degradation' at the United Nations Forum for Forests (UNFF12), 1 May 2017, UN Headquarters in New York, USA
 - Program Chair, COST conference "Priorities for forest adaptation to climate change and air pollution", 29 October 2013, Brussels, Belgium
 - Member, scientific committee, seminar "La pollution par l'ozone et ses effets sur la forêt et la végétation", 9 June 2008, Nice, France
 - Member, Steering Committee, COST Strategic Workshop "Forest ecosystems in a changing environment: identifying future monitoring and research needs", 10 – 13 March 2008, Istanbul, Turkey
 - Program Chair, Giornata di Studio "Effetti dell'ozono sulla vegetazione: monitoraggio, ricerca e politica nei paesi mediterranei", 22 February 2008, Torino, Italy
 - Program Chair, National congress 'Cambiamento climatico e inquinamento: effetti sulle formazioni boschive meridionali', 5 May 2004, Matera, Italy
 - Program Chair, National congress 'Deposizioni atmosferiche in aree forestate italiane', 20 May 2003, Rome, Italy
 - Program Chair, National congress 'Effetti dell'inquinamento sugli ecosistemi forestali: stato dell'arte della ricerca in Italia', 30 October 1998, Firenze, Italy
- Invited speaker at 13 events for bridging science and policy
 - Invited panelist on climate change and forests at the United Nations Forum for Forests 14 for the sustainable developmental goal 13 (Climate Action) panel, 6 May 2019, New York, USA

- Keynoter, IUFRO Side Event: Global Forest Science Cooperation – Investing in Knowledge Generation, Capacity Building and Education in Forestry, World Forestry Congress, 7-11 September 2015, Durban, South Africa
- Invited science expert, ERA-NET SUMFOREST Foresight Workshop “Emerging Issues in European Forest-Based Sector and Research Priorities”, 2 December 2014, Brussels, Belgium
- Invited speaker, COST Strategic Event on developing a “Roadmap for projections of global change impacts on forests”, 27-28 August, 2014, Sarajevo, Bosnia <http://www.cost.eu/events/ccf>
- Invited speaker, 24th CCE Workshop and 30th Task Force Meeting of the ICP Modelling and Mapping on assessments of impacts of air pollution, and interactions with the change of climate, biodiversity and ecosystem services, 7–10 April 2014, Rome
- Invited speaker, 1° incontro su Gli impatti dell’inquinamento atmosferico sugli ecosistemi naturali e antropici, Italian meeting of the UNECE CLRTAP Working Group on Effects, 23-24 January 2014, Rome
- Invited speaker, Alpine Convention conference, 17 May 2013, Udine, Italy
- Invited speaker, Simposio “Studio degli ecosistemi forestali per rispondere alle sfide ambientali del terzo millennio”, 27 September 2011, Accademia Italiana di Scienze Forestali, Florence, Italy
- Invited speaker, FutMon Final Workshop, June 21st 2011, Brussels, Belgium
- Invited talk, congress “Impacts of Air Pollution on Plant Ecosystems: Assessment, Perspectives, and Policies”, 25 May 2007, Curno, Italy
- Invited speaker, congress “Ozone Risk Assessment for European Vegetation”, 10-11 May 2007, Isola di Capri, Italy
- Invited expert, discussion panel for the session “Air Quality and Terrestrial Ecosystems: State of Science, its Assessment and Future Direction”, Air Pollution Workshop, 1-5 April 2007, Guadalajara, Mexico
- Invited talk, Workshop “Critical levels of ozone: further applying and developing the flux-based concept”, 15-19 Nov 2005, Obergurgl, Austria
- Two policy briefs published in Science for Environment Policy, European Commission (issues 356 and 389)

REVIEWING AND EVALUATION

Editorial activity

- *1 June 2018 – 31 March 2020*, advisory board member, Journal of Agricultural Meteorology
- *Jan 2018 – present*, Associate Editor, Forests and the atmosphere, a specialty of Frontiers in Forests and Global Change
- *Jan 2018 – present*, Special Issues Editor, Science of the Total Environment
- *Feb 2017*, reviewer of a book proposal for Cambridge University Press
- *Sept 2016 – present*, member, Editorial Board, Nature Scientific Reports
- *July 2016*, reviewer of a book proposal for Athena Academic UK
- *May 2016 – May 2019*, member, Editorial Board, Heliyon
- *Jan 2016 – present*, Associate Editor, Science of the Total Environment
- *Jan 2016 – June 2016*, Guest Editor, Environmental Pollution
- *Oct 2014*, reviewer of a book proposal for Springer Japan
- *Nov 2013 – present*, member, Editorial Board, Annals of Silvicultural Research
- *Sept 2013 – present*, Executive Editor, iForest - Biogeosciences and Forestry
- *Jan 2013 – Dec 2014*, member, Editorial Board, Journal of Climatology
- *Aug 2012 – Dec 2015*, Associate Editor, Environmental Pollution
- *Sept 2011 - present*, co-Editor, iForest - Biogeosciences and Forestry
- *2010 - 2012*, Steering Committee Expert, project BIOHYPE (Belgian Government)
- *2010*, Invited guest editor, Procedia Environmental Sciences, Elsevier
- *2007 - present*, member, Editorial Board, iForest - Biogeosciences and Forestry
- *2005 - 2015*, member, Editorial Board, Environmental Pollution
- *2004 - present*, member, Editorial Board, Forest@
- Reviewer of scientific manuscripts for many journals : African Journal of Agricultural Research (1); Agricultural and Forest Meteorology (1); Ambio (1); Annali dell'Istituto Sperimentale di Selvicoltura di Arezzo (1); Annals of Applied Biology (1); Annals of Forest Science (4); Archives of Environmental Contamination and Toxicology (1); Atmospheric Environment (5); Baltic

Forestry (1); Biogeosciences (1); Building and Environment (1); Chemosphere (29); Ecological Indicators (1); Ecotoxicology and Environmental Safety (2); Ekològia (1); Elementa (1); Environmental and Experimental Botany (9); Environmental Monitoring and Assessment (4); Environmental Pollution (49); Environmental Research (1); Environmental Science & Technology (1); Estuarine, Coastal and Shelf Science (1); European Journal of Forest Research (6); Forest Pathology (1); Forest@ (9); Fresenius Environmental Bulletin (1); Geophysical Research Letters (1); Global Change Biology (5); *iForest - Biogeosciences and Forestry* (5); *Informatore Fitopatologico* (10); International Research Journal of Microbiology (1); Journal of the American Society for Horticultural Science (1); Journal of Arid Environments (1); Journal of Environmental Monitoring (4); Journal of Experimental Botany (1); Journal of Hazardous materials (1); Journal of Limnology (1); Journal of Tropical Forest Science (1); *Linea Ecologica* (21); *Nature Communications* (1); *Nature Plants* (1); *New Phytologist* (5); *Open Biotechnology Journal* (1); *Phyton - Annales Rei Botanicae* (2); *Plant Biology* (11); *Plant Physiology and Biochemistry* (1); *Plant and Soil* (2); *Polish Journal of Environmental Studies* (2); *Physiologia Plantarum* (1); *Pure and Applied Geophysics* (1); *Science of the Total Environment* (75); *Scientific Reports* (1); *Sherwood* (2); *Studi Trentini di Scienze Naturali, Acta Biologica* (1); *Sustainability* (1); *Tellus B* (1); *TheScientificWorldJournal* (4); *Tree Physiology* (6); *Trees* (5); *Urban Greenings & Urban Forestry* (6); *Water, Air and Soil Pollution* (8): 326 reviews as a total.

Evaluation of organisations

- 2012, Chair of the evaluation panel of the Forest Research and Management Institute (ICAS), Bucharest, National Authority for Scientific Research, Romania
- 2012, Evaluator of the Institute of Research and Development for Potato and Sugar Beet (INCDCSZ), Brasov, National Authority for Scientific Research, Romania
- 2012, Evaluator of the National Agricultural Research and Development Institute (INCDA), Calarasi County – Fundulea, National Authority for Scientific Research, Romania
- 2010, Evaluator of the Institute of Systems Biology and Ecology of the ASCR (Academy of Science of Czech Republic), Czech Republic

Research evaluation

- 2016, Reviewer of 12 publications, Valutazione Qualità Ricerca (VQR) 2011-2014, Ministry of University and Research of Italy

Career evaluation

- 2019, Fulbright Visiting Scholar Program: recommendation for Yusuf Serengil (from Turkey to USA)
- 2017, referee for promotion to Professor (research) at the University of York, UK
- 2016, member evaluation panel for Research Director (dirigente di ricerca, I livello a tempo indeterminato) at Unità di ricerca per il vivaismo e la gestione del verde ambientale ed ornamentale – sede di Pescia (PT, Italy) of the Council for agricultural and economic research (CREA), call code: 01-DR-VIV – Florovivaismo
- 2016, Member evaluation panel for temporary contract CNR (assegno di ricerca, call n. IPSP 022 2016 FI 08/11/2016)
- 2016, Member evaluation panel for temporary contract CNR (assegno di ricerca, call n. IPSP 021 2016 FI 08/11/2016)
- 2016, Chair evaluation panel for temporary contract CNR (assegno di ricerca, call n. IPSP 020 2016 FI 01/07/2016)

- 2016, Chair of the evaluation panel, applications on ecology (15 Academy research fellows, 22 postdoctoral researchers), Research Council for Biosciences and Environment of the Academy of Finland
- 2013, Reviewer of one application, Call "Grants and Fellowships 2013 of the Fund for Scientific Research - FNRS", Belgium
- 2013, Chair of the evaluation panel, applications on environmental plant sciences (1 Academy research fellows, 3 postdoctoral researchers), Research Council for Biosciences and Environment of the Academy of Finland
- 2012, Evaluation panel member, applications on environmental plant sciences (2 Academy research fellows, 4 postdoctoral researchers), Research Council for Biosciences and Environment of the Academy of Finland
- 2012, Member, evaluation panel, CNR fellowship grant (Call IGV-001-2012-FI)
- 2012, Member, evaluation panel, CNR fellowship grant (Call IGV-002-2012-FI)
- 2011, Member Evaluation Panel for Ricercatore CNR III livello (Call 364.99 SS83/1)
- 2011, Evaluation panel member, applications on environmental plant sciences (4 Academy research fellows, 8 postdoctoral researchers), Research Council for Biosciences and Environment of the Academy of Finland
- 2011, Evaluation panel member, un incarico di collaborazione (CNR)
- 2009, Panel peer for promotion, USDA Forest Service (Subject Matter Reviewer, Robert C. Musselman)
- 2006, External reviewer for tenure and promotion to Associate Professor, Department of Biology Indiana Univ.-Purdue Univ. Indianapolis (IUPUI), USA, Chair prof. N. Douglas Lees
- 2006, Panel peer for promotion, USDA Forest Service (Subject Matter Reviewer, Mary B. Adams)
- 2000, Member, evaluation panel, CNR fellowship grant (Call 126.217.B.O.2)
- 2000, Member, evaluation panel, CNR fellowship grant (Call 126.217.B.O.1)

Evaluation of project & other grant applications

- 2016, External referee of one project application for National Science Center (NCN panel NZ9) of Poland
- 2016, Evaluator of 5 project applications for the SumForest ERA-NET programme
- 2016, Evaluator of 6 short scientific visit (SSV) grant applications for EFI, European Forest Institute
- 2016, Chair of the evaluation panel, applications on ecology (27 Academy projects), Research Council for Biosciences and Environment of the Academy of Finland
- 2015, reviewer of one project application, Austrian Science Fund (FWF)
- 2015, Chair of the evaluation panel for the SISEF awards for best poster (18 applications), best oral presentation (20 applications) and best publication in 2013-2014 (11 applications)
- 2015, reviewer of one visit application within the European Plant Phenotyping Network (EPPN)
- 2014, reviewer of one project application, BARD, the United States - Israel Agricultural Research & Development Fund
- 2014, Evaluator of one application, Israel Science Foundation, Israel
- 2013, Evaluator of one application, BIOADAPT 2013 call, French National Research Agency (ANR)
- 2013, Evaluator of one application for the "Innovative Plant Breeding within the Cultivation System (IPAS)" call within the "National Research Strategy BioEconomy 2030" framework programme of the German Federal Ministry of Education and Research (BMBF) and Project Management Jülich (PtJ)

- 2013, Evaluator of one application, COST Open Call 2012-2 Trans-Domain Proposals (TDP)
- 2013, Chair of the evaluation panel, applications on environmental plant sciences (10 Academy projects), Research Council for Biosciences and Environment of the Academy of Finland
- 2012, Evaluator of one letter of intent for Centres of Excellence in Research 2014–2019, Research Council for Biosciences and Environment of the Academy of Finland
- 2012, Evaluator of one project proposal for Hatch funds, Massachusetts Agricultural Experiment Station, USA
- 2012, Evaluator of one ERA-NET BiodivERsA-2 Call proposal, FP7
- 2012, Evaluation panel member, applications on environmental plant sciences (10 Academy projects), Research Council for Biosciences and Environment of the Academy of Finland
- 2011, Evaluator of one proposal in the Call "Large equipments and Infrastructures" 2011 of the Fund for Scientific Research – FNRS, Belgium
- 2011, Evaluator of one application for the Abe Fellowship for Journalists, Social Science Research Council, UK
- 2011, Evaluation panel member, applications on environmental plant sciences (10 Academy projects), Research Council for Biosciences and Environment of the Academy of Finland
- 2010, Project reviewer, one EUROCORES theme proposal (European Science Foundation)
- 2008-2009, Evaluator, 7th Framework Programme, European Union (FP7-ENV-2008-1; FP7-ENV-2009-1)
- 2007, Reviewer of one project application, Czech Science Foundation (GACR)
- 2007, Reviewer of one project application, Academy of Finland - Academy of Scientific Research & Technology nel tema "Environmental Research"
- 2007, Reviewer of one project application, BARD, the United States - Israel Agricultural Research & Development Fund
- 2006-2010, Member Selection Committee for visiting scientist grants, EU LAPBIAT Lapland Atmosphere-Biosphere Facility - Improving the Human Research Potential and the Socio-Economic Knowledge Base (Access to Research Infrastructures, project manager, Satu Huttunen, Univ. Oulu, Finland)
- 2002-2004-2006, Reviewer of project proposals (9) Fundaciòn BBVA (Spain) Convocatoria de Ayudas a la Investigación en Biología de la Conservación

Post graduate evaluation

- 2018, External referee, for a PhD position (Isaac Tatsap, Life Science Zurich Graduate School, Switzerland)
- 2016, Committee member, Doctoral dissertation (Evgenios Agathokleous, Graduate School of Agriculture Hokkaido University, Sapporo, Japan)
- 2013, Examiner, Doctoral dissertation (Kaisa Hartikainen, Faculty of Science and Forestry, University of Eastern Finland, Finland)
- 2010, Pre-examiner of a doctoral dissertation (Suvi-Maaria Nikula, Faculty of Biological and Environmental Sciences, University of Helsinki, Finland)
- 2007, Reviewer, Doctoral Dissertation "The effect of tropospheric ozone on the morphology of the main autochthonic forest plants in Lithuania", Biomedical Sciences, Ecology and Environmental Sciences 03 B, Brigita Serafinaviciute, supervisor Vidas Stakenas (Vytautas Magnus University, Kaunas, Lithuania)
- 1999, Official referee, doctoral dissertation (Heli Kinnunen, Dept. Biology, University of Oulu, Finland)

- 1994, External reviewer, doctoral dissertation in Evolutionary Biology VI cycle (Giovanna Astorino, Dept Plant Biology, University 'La Sapienza', Rome)

TEACHING and TUTORING

Teaching

- Seminar to PhD students in Agricultural and environmental sciences, cycle XXXV, on The concept of principal investigator, 1 CFU, 9-10 December 2019
- PIFI professorship (2016VBA057), Chinese Academy of Science, Beijing, China, 2019-2020
- Seminar "Diagnosi dei danni da inquinamento atmosferico alla vegetazione", Laurea Magistrale Scienze e Tecnologie Agrarie (prof. Salvatore Moricca) Scuola di Agraria dell'Università di Firenze, 6 December 2016
- Seminar "Impatto di inquinanti sulla vegetazione forestale", corso "Laboratorio sui cambiamenti climatici e avversità delle piante" (prof. Paolo Capretti), Laurea magistrale in Scienze e tecnologie dei sistemi forestali, Scuola di Agraria dell'Università di Firenze, 28 November 2016
- PIFI professorship (2016VBA057), Chinese Academy of Science, Beijing, China, 2016-2017
- Seminar "Inquinamento e foreste", corso Mutamenti climatici e avversità delle Piante (prof. Paolo Capretti), Laurea magistrale in Scienze e tecnologie dei sistemi forestali, Scuola di Agraria di Firenze, 30 March 2015
- Invited visiting professor (Air pollution and climate change impacts on water control in forest ecosystems), Hokkaido University (prof. Takayoshi Koike), Sapporo, Japan, February 2015 (7 days)
- Seminar "Danni da ozono alle piante: stato dell'arte e rilievi, aspetti teorici e dimostrazioni" and field exercise, Laurea magistrale in Scienze e tecnologie dei sistemi forestali (prof. Salvatore Moricca), 4 July 2013
- Seminar "Danni da inquinamento atmosferico alla vegetazione", Laurea magistrale in Scienze e tecnologie agrarie, curriculum Medicina delle piante (prof. Paolo Capretti), 18 December 2012
- Seminar "Inquinamento da ozono e impatti sulla vegetazione : prospettive per la ricerca", Dottorato di Ricerca in Ecologia, Corsi di laurea in Scienze e Tecnologie per l'Ambiente e la Natura, Università di Parma (prof. Luigi Sanità di Toppi), 28 November 2012
- Seminar "Inquinamento da ozono e vegetazione", Laurea Magistrale in Ecologia, Corsi di laurea in Scienze e Tecnologie per l'Ambiente e la Natura, Università di Parma (prof. Luigi Sanità di Toppi), 28 November 2012
- Seminar "Inquinamento e piante", High School Leonardo da Vinci, Florence, 27 November 2012
- Seminar "Impatto dell'inquinamento atmosferico sugli ecosistemi forestali", School of Ecopathology of Forest Systems (prof. Salvatore Moricca), Vallombrosa, 18 July 2011
- Professor of 'The plant component' module, 'Principles of ecological system analysis' (AY 1995/96 – Faculty of Environmental Science, University of Urbino)
- Professor of 'The plant component' module, 'Applied Ecology' (AY 1994/95 – Faculty of Environmental Science, University of Urbino)
- Professor of 'The plant component' module, 'Principles of ecological system analysis' (AY 1993/94 – Faculty of Environmental Science, University of Urbino)
- Seminars on 'Fitopatie abiotiche' in the professional training course 'Architetti restauratori di giardini e parchi storici' (1995 & 1996)

Tutoring

- Member of the PhD panel in Agricultural and Environmental Sciences, University of Firenze Italy (since 2019)
- Member of the PhD panel in Earthquake and Environmental Hazard (XXXIII cycle), University of Chieti-Pescara, Italy (2017-2019)
- Tutor, PhD, Daniel Blanco Ward (Ozone uptake by Mediterranean grapevines: a modelling approach), Supervisor Ana Isabel Miranda, University of Aveiro, Portugal 2019-2021
- Tutor, PhD, Eugenios Agathokleous (Influence of elevated CO₂ and ground-level O₃ on native deciduous trees in Japan), Supervisor Takayoshi Koike, University of Hokkaido, Japan 2015-2017
- Tutor, one post-graduate training: Stefano Carmignani (Isolamento e caratterizzazione di specie di *Phytophthora*), Scienze e Tecnologie Agrarie e Forestali, University Firenze, 2012
- Scientific supervisor, COST Action FP0903 Summer School on Ecophysiological Field Techniques in Climate Change and Pollution Research, Viote del Monte Bondone, Trento, Italy, 5-9 September 2011
- Tutor, MSc training activity (Salvatore Tirrito, international Master Level II "Science and technology for the sustainable development of contaminated sites", Dept Scienze Ambientali, University Parma), 2003
- Tutor, MSc degree (Daniela Salvini, Agricultural Science, University Bologna), 1995
- Tutor, 19 degree theses: Anita Borlin (2019, level I 'magistrale') at Dept Produzioni agroalimentari e gestione degli agroecosistemi, University of Pisa, Italy; Chiara Accardo (2019, level I 'magistrale') at Dept Produzioni agroalimentari e gestione degli agroecosistemi, University of Pisa, Italy; Claudia Pisuttu (2017, level I 'magistrale') at Dept Produzioni agroalimentari e gestione degli agroecosistemi, University of Pisa, Italy; Jacopo Manzini (2018, level I), Lorenzo Bussotti (2016, level I), Isaac Tatsap (2016, level II; 2018, level I), Martina Margari (2015, level I), Marco Ammoniaci (2015, level I), Tommaso Bardelli (2010, level I), Elisa Zini (2004, level I), Luca Calderai (2001, 'magistrale'), Sara Strati (1996, 'magistrale'), Barbara Vinceti (1995, 'magistrale'), Simone Sabatini (1993 'magistrale') at Forest Science University of Firenze, Italy; Marta Fabbrini (1995, 'magistrale') at Science University of Firenze, Italy; Andrea Rettori (1999, 'magistrale') at Forest Science University of Torino, Italy; Katja Laakso (2000, Master of Science) at Department of Biology University of Oulu, Finland; Nicla Contran (2005, 'magistrale') at Environmental Science University Bicocca Milan, Italy
- Tutor, 11 under-graduate trainings: Tommaso Bardelli, Forest Science, University Firenze, 2009; Stefano Carmignani, Forest Nursery Science, University Firenze, 2011; Martina Margari, Forest Science, University Firenze, 2015; Marco Ammoniaci, Forest Science, University Firenze, 2015; Alessandro Armenio, Food Science, University Firenze, 2015; Lorenzo Bussotti, Forest Science, University Firenze, 2016; Isaac Tatsap, Forest Science, University Firenze, 2016; Cosimo Sernesi, Forest Science, University Firenze, 2016; Manzini Jacopo, Nursey, Environment and Green Management, University Firenze, 2017; Cesare Garosi, Biotechnology, University Firenze, 2019; Giovanni Galloni, Forest Science, University Firenze, 2019.

WORKSHOPS-CONFERENCES-MEETINGS

Organization

1. Member, scientific committee, ACID RAIN 2020 conference, 19-23 October 2020, Niigata, Japan

2. Program Chair, international conference 'Air pollution threats to plant ecosystems', 4-8 May 2019, Paphos, Cyprus, Greece
3. Member, scientific committee, XII SISEF National Congress 'La scienza utile per le foreste: ricerca e trasferimento', 12-15 November 2019, Palermo, Italy
4. Member, international scientific committee, 'Natural resources, green technology and sustainable development-GREEN2018', 5-8 June 2018, Zagreb, Croatia
5. Program Chair, international conference 'Ozone and Plant Ecosystems', 21-25 May 2018, Florence, Italy
6. Program Chair, 28th IUFRO RG 7.01 conference "Global Challenges of Air Pollution and Climate Change to Forests", 23-26 October 2017, Tokyo, Japan
7. Member scientific committee, XI Congresso Nazionale SISEF "La foresta che cambia", 10-13 October 2017, Rome, Italy
8. Organiser of two sessions at the IUFRO 125th anniversary congress, 22-26 September 2017, Freiburg, Germany
9. Organiser of a session at the INTECOL 2017 symposium, 21-25 August 2017, Beijing, China
10. Program Chair, side event 'Healthy forests for a prosperous environment: the multi-faceted aspects of forest degradation' at the United Nations Forum for Forests (UNFF12), 1st May 2017, UN Headquarters in New York, USA
11. Organiser of four sessions at the IUFRO Regional Congress for Asia and Oceania, 24-27 October 2016, Beijing, China
12. Program Chair, All Division7 conference Global Change and Forest Health, 25-29 April 2016, Istanbul, Turkey (cancelled due to safety risk)
13. Program Chair, scientific committee, X Congresso Nazionale SISEF "Sostenere il pianeta, boschi per la vita", 16-19 September 2015, Firenze, Italy
14. Program Chair, 27th IUFRO RG 7.01 conference "Global Challenges of Air Pollution and Climate Change to Forests", 2-5 June 2015, Nice, France
15. Member, International Advisory Committee, ICPEP-5 Fifth International Conference on Plants & Environmental Pollution, 24-27 February 2015, NBRI, Lucknow, India
16. Session organiser, IUFRO World congress "Session 14: Ozone and Forests", 5-11 October 2014, Salt Lake City, USA
17. Member, Advisory Committee, 9th Air Pollution Global Change Symposium "Plants and the Changing Environment", 5-9 June 2011, Monterey, California, USA
18. Program Chair, International Conference "Ozone and Plants", May 2014, Beijing, China
19. Member Program Committee, Urban Environmental Pollution 2013 Asian Edition, 17-20 November 2013, Beijing, China
20. Program Chair, COST conference "Priorities for forest adaptation to climate change and air pollution", 29 October 2013, Brussels, Belgium
21. Member, scientific committee, IX Congresso Nazionale SISEF "Multifunzionalità degli ecosistemi forestali montani: sfide e opportunità per la ricerca e lo sviluppo", 16-19 September 2013, Bolzano, Italy
22. Member, scientific committee, IUFRO RG 7.01 "Vegetation responses to climate change and air pollution – Unifying research and evidence across the northern and southern hemisphere", 1-6 September 2013, Ilheus, Brazil
23. Member, scientific committee, Conference "Forest-Water Interactions with respect to Air Pollution and Climate Change", 3-6 September 2012, Kahramanmaraş, Turkey
24. Member, Program Committee, Urban Environmental Pollution 2012, 17-20 June 2012, Amsterdam, The Netherlands

25. Program Chair, IUFRO-APW-COST-EnvEurope-ICP Integrated Monitoring joint conference, 20-24 May 2012, Kaunas, Lithuania
26. Member, scientific committee, VIII National Congress SISEF “Selvicoltura e conservazione del suolo”, 4-7 October 2011, Cosenza, Italy
27. Program Chair, COST Conference “Ozone, Climate Change and Forests”, 14-16 June 2011, Prague, Czech Republic
28. Member, Advisory Committee, 8th Air Pollution Global Change Symposium "Plant Functioning in a Changing Global and Polluted Environment", 5-9 June 2011, Groningen, The Netherlands
29. Member, International Advisory Committee, Fourth International Conference on Plants & Environmental Pollution (ICPEP-4), 8–11 December 2010, Lucknow, India
30. Member, scientific committee, congress “Mixed Stands - Challenges in a Period of Uncertainties”, 6-8 October 2010, Vila Real, Portugal
31. Program Chair, COST Conference “Research, monitoring and modelling in the study of climate change and air pollution impacts on forest ecosystems”, 5-7 October 2010, Rome, Italy
32. Program Chair, sessions G-01 Forest health in a changing environment, and C-10 Impact of global environmental change on forest ecosystem services, 23rd IUFRO World Congress, 23-28 August 2010, Seoul, Republic of Korea
33. Program Chair, Elsevier Conference “Urban Environmental Pollution – Overcoming obstacles to Sustainability and Quality of Life”, 20-23 June 2010, Boston, USA
34. Member, scientific committee, conference “People, Forests and the Environment: Coexisting in Harmony”, 25 - 27 May 2010, Casablanca, Morocco
35. Member, Program Committee, 24th IUFRO Meeting for Specialists in Air Pollution and Climate Change Effects on Forest Ecosystems “Forest Adaptation to Air Pollution and Climate Change”, 22-26 March 2010, Antalya, Turkey
36. Member, scientific committee, VII Congresso Nazionale SISEF “Sviluppo e Adattamento, Naturalità e Conservazione: Opportunità per un Sistema Forestale in Transizione”, Sett 29 - Ott 02, 2009, Università del Molise, Isernia - Pesche (IS) , Italy
37. Member, Advisory Board, APGC Symposium Series “Responses of Plant Metabolism to Air Pollution and Global Change” Plant Functioning in a Changing Global Environment, 7–11 Dec 2008, Creswick, Victoria, Australia
38. Member, scientific and organising committee, 23rd IUFRO Meeting for Specialists in Air Pollution and Climate Change Effects on Forest Ecosystems “Air Pollution and Climate Change at Contrasting Altitude and Latitude”, 7-12 September 2008, Murten, Switzerland
39. Member, scientific committee, seminar “La pollution par l’ozone et ses effets sur la forêt et la végétation”, 9 June 2008, Nice, France
40. Member, scientific committee, conference "Forests, bioenergy and climate change", 20-21 March 2008, Casablanca, Morocco
41. Member, Steering Committee, COST Strategic Workshop “Forest ecosystems in a changing environment: identifying future monitoring and research needs”, 10 – 13 March 2008, Istanbul, Turkey
42. Program Chair, Giornata di Studio “Effetti dell’ozono sulla vegetazione: monitoraggio, ricerca e politica nei paesi mediterranei”, 22 February 2008, Torino, Italy
43. Member, scientific committee, international symposium “Bottlenecks, Solutions, and Priorities in the Context of Functions of Forest Resources”, 17-19 October 2007, Istanbul, Turkey
44. Program Chair, 22nd IUFRO Meeting for Specialists in Air Pollution Effects on Forest Ecosystems “Forests under Anthropogenic Pressure - Effects of Air Pollution, Climate Change and Urban Development”, 10-15 September 2006, Riverside, USA,

45. Program Chair, session “Forests between Air Pollution and Climate Change”, IUFRO World Congress, 12 August 2005, Brisbane, Australia
46. Member, Organising Committee, 6th International Symposium on Plant Responses to Air Pollution and Global Changes, 19-22 October 2004, Tsukuba, Japan
47. Program Chair, National congress ‘Cambiamento climatico e inquinamento: effetti sulle formazioni boschive meridionali’, 5 May 2004, Matera, Italy
48. Program Chair, National congress ‘Deposizioni atmosferiche in aree forestate italiane’, 20 May 2003, Rome, Italy
49. Program Chair, 20th IUFRO International Meeting for Specialists in Air Pollution Effects on Forest Ecosystems “Long term air pollution effect on forest ecosystems”, 30 Aug – 1 Sept 2002, Zvolen, Slovakia
50. Program Chair, seminar "Quantitative determination of threshold response of pine to ozone uptake in a Mediterranean climate", 23 November 2001, Firenze, Italy
51. Program Chair, parallel session, III Convegno Nazionale SISEF, 15-18 Oct 2001, Viterbo, Italy
52. Member, organising committee, National congress ‘Ozono e foreste’, 1 June 2001, Pisa, Italy
53. Program Chair, National congress ‘Danni alla vegetazione costiera e inquinamento da tensioattivi’, 5 October 2000, Giardini Botanici Hanbury, Ventimiglia, Italy
54. Program Chair, seminar "Uso di tecniche a microonde e laser per il monitoraggio della vegetazione", 29 January 1999, Firenze, Italy
55. Program Chair, National congress ‘Effetti dell’inquinamento sugli ecosistemi forestali: stato dell’arte della ricerca in Italia’, 30 October 1998, Firenze, Italy
56. Program Chair, 17th IUFRO IUFRO Meeting for Specialists in Air Pollution Effects on Forest Ecosystems “Stress Factors and Air Pollution”, 14-19 September 1996, Firenze, Italy

Invitations

1. Invited seminar, Author Training Workshop for Forests MDPI journal, Chinese Academy of Forestry, December 2019, Beijing, China
2. Invited speaker, XII SISEF national congress, talk on *Il ruolo internazionale della SISEF*, 12 November 2019, Palermo, Italy
3. Invited speaker, ECOMONDO, talk on *foreste urbane e periurbane*, 7 November 2019, Rimini, Italy
4. Invited panelist on climate change and forests at the United Nations Forum for Forests 14 for the sustainable developmental goal 13 (Climate Action) panel, 6 May 2019, New York, USA
5. Invited speaker, EFI seminar ‘Emerging forest-based solutions and their implications for forest management’, 5 October 2017, Oslo, Norway
6. Invited speaker, congress Inquinamento atmosferico e sostenibilità: dagli impatti a possibili soluzioni. Un approccio integrato, 16-17 March 2017, ENEA Rome, Italy
7. Invited speaker, 16th Forum Carpathicum, 28-30 September, 2016, Bucharest, Romania
8. Invited panellist, Seminar ‘Forest-based innovations: a key for Europe’s bioeconomy’, EFI 2016 Annual Conference, 23 September 2016, Vienna, Austria
9. Keynoter, IUFRO Side Event: Global Forest Science Cooperation – Investing in Knowledge Generation, Capacity Building and Education in Forestry, World Forestry Congress, 7-11 September 2015, Durban, South Africa
10. Invited speaker, EUFORINNO session, World Forestry Congress, 7-11 September 2015, Durban, South Africa
11. Invited speaker, IV Mediterranean Forest Week, 17-18 March 2015, Barcelona, Spain
12. Invited science expert, ERA-NET SUMFOREST Foresight Workshop “Emerging Issues in European Forest-Based Sector and Research Priorities”, 2 December 2014, Brussels, Belgium

13. Invited speaker, COST Strategic Event on developing a "Roadmap for projections of global change impacts on forests", 27-28 August, 2014, Sarajevo, Bosnia <http://www.cost.eu/events/ccf>
14. Invited speaker, 24th CCE Workshop and 30th Task Force Meeting of the ICP Modelling and Mapping on assessments of impacts of air pollution, and interactions with the change of climate, biodiversity and ecosystem services, 7 –10 April 2014, Rome
15. Invited speaker, 1° incontro su Gli impatti dell'inquinamento atmosferico sugli ecosistemi naturali e antropici, Italian meeting of the UNECE CLRTAP Working Group on Effects, 23-24 January 2014, Rome
16. Invited speaker, Urban Environmental Pollution 2013 Asian Edition, 17-20 November 2013, Beijing, China
17. Invited speaker, Alpine Convention conference, 17 May 2013, Udine, Italy
18. Invited speaker, Simposio “Studio degli ecosistemi forestali per rispondere alle sfide ambientali del terzo millennio”, 27 September 2011, Accademia Italiana di Scienze Forestali, Florence, Italy
19. Invited speaker, FutMon Final Workshop, June 21st 2011, Brussels, Belgium
20. Keynoter, Fourth International Conference on Plants & Environmental Pollution (ICPEP-4), 8–11 December 2010, Lucknow, India
21. Invited speaker, session I-01 Healthy Urban Forests: Healthy People, 23rd IUFRO World Congress, 23-28 August 2010, Seoul, Republic of Korea
22. *June 2007*: Invited review on “Ozone impacts on forests”, Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources
23. Invited talk, congress “Impacts of Air Pollution on Plant Ecosystems: Assessment, Perspectives, and Policies”, 25 May 2007, Curno, Italy
24. Invited speaker, congress “Ozone Risk Assessment for European Vegetation”, 10-11 May 2007, Isola di Capri, Italy
25. Invited expert, discussion panel for the session "Air Quality and Terrestrial Ecosystems: State of Science, its Assessment and Future Direction", Air Pollution Workshop, 1-5 April 2007, Guadalajara, Mexico
26. *March 2007*: invited author, “Impact of ozone on Mediterranean forests”, Encyclopedia of Earth
27. *March 2007*: invited review on ozone standards for vegetation, Environmental Pollution
28. *March 2007*: Invited commentary, “Air Pollution Research Trends” NovaPublishers, NY
29. Invited speaker, SITE-SISEF “Foreste e Clima: 10 anni di ricerche italiane”, 19 Sept 2006, Viterbo, Italy
30. Invited expert, ACCENT-BIAFLUX Ozone flux workshop - Expert meeting, 11-12 July 2006, Grignon, France
31. Invited expert, meeting "Ozone Risk Assessment", 18 May 2006, Tervuren, Belgium
32. Invited talk, Workshop “Critical levels of ozone: further applying and developing the flux-based concept”, 15-19 Nov 2005, Obergurgl, Austria
33. Invited review paper about ozone and Mediterranean forests, Environmental Pollution (August 2004)
34. Invited speaker, 21st Meeting for Specialists in Air Pollution Effects on Forest Ecosystems “Forests under changing climate, enhanced UV-B, and air pollution”, 25-30 Aug 2004, Oulu, Finland
35. Invited speaker, III IUFRO European Regional Conference “Forests serving urbanized societies”, 27- 30 Aug 2002, Copenhagen, Denmark

Session Chair

1. Session Chair of the group “Policies to mitigate air pollutants and theirs effects”, 3rd Asian Air Pollution Workshop, 20-22 October 2017, Tokyo, Japan

2. Session Chair, 27th IUFRO RG 7.01 conference “Global Challenges of Air Pollution and Climate Change to Forests”, 2-5 June 2015, Nice, France
3. Session Chair, CAPERMED conference, 3-4 July 2014, Lisboa, Portugal
4. Session Chair, Urban Environmental Pollution 2013 Asian Edition, 17-20 November 2013, Beijing, China
5. Session Chair, IX Congresso Nazionale SISEF “Multifunzionalità degli ecosistemi forestali montani: sfide e opportunità per la ricerca e lo sviluppo”, 16-19 September 2013, Bolzano, Italy
6. Session Chair, “Cambiamenti climatici, mitigazione e strategie adattative”, conference “Tuscany Agricultural Research towards Europe 2020”, 8 October 2012, Florence, Italy
7. Session Chair, IUFRO-APW-COST-EnvEurope-ICP Integrated Monitoring joint conference, 20-24 May 2012, Kaunas, Lithuania
8. Session Chair, “Quantifying ozone impacts on Mediterranean Forests”, 25th ICP Vegetation Task Force Meeting & one-day ozone workshop, 31 January – 2 February, 2012, Brescia, Italy
9. Session Chair, Conference “Ozone, Climate Change and Forests”, 14-16 June, 2011, Prague, Czech Republic
10. Session Chair, Conference “Research, monitoring and modelling in the study of climate change and air pollution impacts on forest ecosystems”, 5-7 October 2010, Rome, Italy
11. Session Chair, VII Congresso Nazionale SISEF ‘Sviluppo e adattamento, naturalità e conservazione: opportunità per un sistema forestale in transizione’, Isernia - Pesche(IS), 29-03 Oct 2009
12. Session Chair, international symposium “Bottlenecks, Solutions, and Priorities in the Context of Functions of Forest Resources”, 17-19 Oct 2007, Istanbul, Turkey
13. Invited speaker, workshop “Metal fluxes and stresses in terrestrial ecosystems”, 16-21 Oct 2005, Ascona, Switzerland
14. Session Chair, session "Biodiversità, monitoraggio (LTER) e fattori perturbativi", V Congresso Nazionale SISEF Foreste e Società: cambiamenti, conflitti e sinergie, 27-30 Sept 2005, Torino, Italy
15. Session Chair "Foreste e Clima", IV Congresso Nazionale SISEF Meridiani Foreste, 6-10 Oct 2003, Potenza, Italy
16. Session Chair, 20th International Meeting for Specialists in Air Pollution Effects on Forest Ecosystems “Long term air pollution effect on forest ecosystems”, 30 Aug – 1 Sept 2002, Zvolen, Slovakia

SCIENTIFIC ACTIVITY

Research lines

The main subject is plant ecosystems and abiotic stressors, with focus on pollution and forests. The main topics are:

- Global Change effects (ground level ozone, elevated atmospheric carbon dioxide, drought, frost, surfactants, acid deposition, heavy metals, UV-B, salinity) on crop and forest species;
- Mechanisms of injury in plants under stress (morphological, anatomical, biochemical and physiological analyses; on leaves, branches, roots and pollen);
- Biomonitoring (tabacco, ozone-like visible foliar injury, pollen);
- Monitoring (ozone concentrations and fluxes);
- Epidemiology of ozone injury;

- Fungal pathogens (*Phytophthora* sp., *Biscogniauxia nummularia*; *Sphaeropsis sapinea*);
- Interactions among stressors (biotic-abiotic, abiotic-abiotic);
- Functional biodiversity at the level of species (*Pinus*), population (*Pinus halepensis*, *Fraxinus excelsior*, *F. ornus*) and clone (*Fagus sylvatica*);
- Urban forests (plant functionality, effects on air quality and climate).

Keywords: Biogenic volatile organic compounds, Chlorophyll fluorescence, Ectomycorrhizas, Epidemiology, Ethylenediurea, Fine roots, Growth, Leaf gas exchange, Leaf hydraulic conductivity, Leaf-atmosphere interface, Ozone flux, Pollen quality, Stomatal density, Stomatal sluggishness, Water potential

Projects¹

In total, Elena Paoletti has managed research fundings of more than 4 millions € (4,033,292€).

Collaborator:

1. 1990-1992, Interazioni tra diverse concentrazioni di CO₂ e inquinanti atmosferici sulla vegetazione forestale (MAF-SBI)
2. 1991-1995, P.F. Ricerche Avanzate per Innovazioni nel Sistema Agricolo (CNR)
3. 1992-1994, Funzionalità delle alberature stradali (Comune di Firenze)
4. 1992-1993, P.S. Aree Metropolitane (CNR)
5. 1995-1997, P.S. Foreste e produzioni forestali nel territorio montano (CNR)
6. 1996-1998, P.Speciale Valutazione e gestione di ecosistemi forestali compromessi (CNR)
7. 1996-2000, FAIR CT95-0097 Adaptation and selection of Mediterranean *Pinus* and *Cedrus* for sustainable afforestation of marginal lands (UE)
8. 1997-2001, P.F. Beni Culturali (CNR)
9. 1997-2001, Progetto Biodiversità (UE-CNR)
10. 1997-2000, COST E 12 Urban forest and trees (UE)
11. 1998-2000, P.S. Caratterizzazione e valorizzazione delle risorse genetiche vegetali, animali e microbiche (CNR)
12. 2000-2001, Accordo di programma Conoscenza, conservazione e gestione della biodiversità (MA-CNR)
13. 2000-2001, I patogeni fungini di debolezza nel deperimento delle querce: endofitismo nella strategia di adattamento (cofin MURST)
14. 2001-2002, Bioindicazione e biomonitoraggio passivo ed attivo di inquinanti atmosferici (ossidi di azoto, anidride solforosa, idrocarburi policiclici aromatici, ozono, elementi in traccia) mediante piante superiori arboree ed erbacee (cofin MURST)
15. 2002-2003, Ruolo degli endofiti fungini nel deperimento delle querce (cofin MURST)
16. 2003-2005, Ruolo di endofiti fungini nel controllo biologico naturale verso *Biscogniauxia mediterranea* su querce (cofin MURST)
17. RISVEM-Ricerca sui sistemi di verde multifunzionale in ambito toscano (ARSIA) 2004-2008
18. 2007-2009, CLARINO (ARSIA)

Principal Investigator:

¹ Funding source in parenthesis. The amount is shown only where PI or coordinator.

1. 1997-2000, P.S. Ambiente e Territorio 'Degrado della vegetazione costiera' (CNR) - € 38 500
2. 1998-2000, FAIR CT97-3926 Long term dynamics of oak ecosystems: assessment of the role of root pathogens and environmental constraints as interacting decline inducing factors (UE FP5) - € 18 000
3. 2001, Micromorfologia superficiale di foglie con sospetti sintomi da ozono (IPLA-INTERREG II) - € 6000
4. 2001-2002, Risposta all'ozono all'interfaccia foglia-atmosfera in specie legnose mediterranee (CNR-Agenzia2000) - € 20 000
5. 2002-2004, FORMEDOZON - Consolidamento di una rete di studi e monitoraggio degli effetti dell'ozono sulla vegetazione mediterranea per la salvaguardia dell'ambiente e la sensibilizzazione degli operatori (Regione Piemonte – INTERREG IIIB) - € 56 810
6. 2003, Il polline come biomonitor di inquinamento (ISMAA, Trento) - € 4 000
7. 2003-2004, OZONIT - Effetti degli stress ambientali con particolare riguardo all'ozono troposferico sulla vegetazione naturale in area mediterranea (DBV Univ. La Sapienza - Ministero dell'Ambiente) - € 17 000
8. 2006-2008, VEGETPOLLOZONE - Coopération transnationale: dégâts d'ozone sur la végétation. Communication et sensibilisation des acteurs publics à cette problématique (Regione Piemonte – INTERREG IIIB) - € 99 000
9. 2011-2014, FO₃REST: Ozone and climate change impacts on French and Italian forests: Refinement of criteria and thresholds for forest protection (LIFE10 ENV/FR/000208) - € 547 657
10. 2011-2015, leader of WP11 in ECLAIRE Effects of Climate Change on Air Pollution Impacts and Response Strategies for European Ecosystems (FP7 ENV.2011.1.1.2-1) - € 170 000
11. 2017-2019, Tropospheric ozone effects on forest growth and diversity (CNR/RA – Romanian Academy - bilateral agreement of scientific and technological cooperation) - € 10 000
12. 2017-2019, Ozone impacts on plant ecosystems in China and Italy (CNR/CAS – Chinese Academy of Science - bilateral agreement of scientific and technological cooperation) - € 25 500
13. 2017-2020, project “MITIMPACT: Previsione e valutazione dell'impatto del cambiamento climatico e dell'inquinamento fotochimico dell'aria sulla vegetazione transfrontaliera – strategia di mitigazione” (Programma Di Cooperazione Territoriale Europea INTERREG V A – Italia – Francia ALCOTRA) - € 386 794

Coordinator:

1. 2001-2002, Comportamento di specie legnose mediterranee nei confronti dell'ozono troposferico (CNR-Agenzia 2000) - € 80 000
2. 2007, Verso un programma di forestazione urbana - Sviluppo di un programma integrato per la riduzione dei livelli di anidride carbonica e ozono ad opera delle foreste urbane (Ministero dell'Ambiente e della Tutela del Territorio e del Mare) - € 15 000
3. 2008, RSTL-683 Definizione dei livelli critici per l'ozono in Europa per ecosistemi agrari e forestali (CNR) - € 31 000
4. 2009-2013, COST Action FP0903 Climate Change and Forest Mitigation and Adaptation in a Polluted Environment (COST) - € 550 125
5. 2010, Dynamic stomatal responses to ozone pollution (CNR AgroFood Department Award 2010 for excellence in sustainable agriculture) - € 20 000
6. 2011-2013, Monitoring tropospheric ozone in urban and suburban areas of China (CNR/CAF-Chinese Academy of Forestry- bilateral agreement of scientific and technological cooperation) - € 15 000
7. 2013, Valutazione dell'impatto potenziale di una centrale termoelettrica sulla funzionalità delle piante coltivate nei vivai pistoiesi (Coldiretti di Pistoia) - € 3 000

8. 2014-2016, Tropospheric ozone effects on forest growth and diversity (CNR/RA – Romanian Academy - bilateral agreement of scientific and technological cooperation) - € 11 400
9. 2014, Una nuova generazione di infrastrutture Ozone FACE (Ente Cassa di Risparmio di Firenze) - € 25 000
10. 2016-2020, MOTTLES: MOnitoring ozone injury for seTTing new critical LEvelS (LIFE15 ENV/IT/000183) - € 1 798 506
11. 2019-2020, Valutazione delle resilienza delle specie arboree contenute nel dataset prodotto nell'ambito delle linee guida sulla capacità di assorbimento dei principali inquinanti (PM10, NO2, O3 e CO2) in contesto urbano (accordo Regione Toscana) - € 25 000

PAPERS

According to Google Scholar <http://scholar.google.it/citations?user=Cxl2kTgAAAAJ>, her h-index is 44. Scopus details are at <http://www.scopus.com/authid/detail.url?authorId=26635586900> Her ORCID code is orcid.org/0000-0001-5324-7769

The 321 papers (excluding poster presentations) are divided into: Articles in peer-reviewed journals, with and without impact factor; Books and book chapters; Editing of special issues/sections; Other articles. Poster abstracts are not included. An asterisk marks the corresponding author.

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