



Alessio Collalti

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Sex M | Date of birth 04 July 1979 | Nationality Italian

WORK EXPERIENCE

27 Dec 2018 ongoing

Researcher (permanent position)

National Research Council of Italy (CNR), ISAFOM, Institute for Agricultural and Forestry System in the Mediterranean. Via della Madonna Alta, 128, 06128 Perugia, Italy (www.isafom.cnr.it).

Forest Modelling Lab. head (Prot. N. 0000652/2020; www.forest-modelling-lab.com) (2020 - ongoing)

Principal Investigator 3D-CMCC-FEM (Three Dimensional – Coupled Model Carbon Cycle – Forest Ecosystem Model; www.github.com/Forest-Modelling-Lab/3D-CMCC-FEM) (2011 – ongoing)

Business or sector Research Development

1 Jan 2019 - 1 Jan 2020

“Scientist” (Affiliated)

Foundation Euro-Mediterranean Centre on Climate Change (CMCC) – Via Augusto Imperatore 16, 73100 Lecce, Italy (www.cmcc.it) – Division IAFES (Impacts on Agriculture, Forests and Ecosystem Services), Viale Trieste 127, 01100 Viterbo, Italy (www.cmcc.it/it/divisions/iafes).

Team leader on forest modelling and climate change impacts (Prot. N. 153/CMCC/2019)

Business or sector Research Development

1 Jun 2017 - 26 Dec 2018

Scientist (II level, part-time 50%, permanent position)

Foundation Euro-Mediterranean Centre on Climate Change (CMCC) – Via Augusto Imperatore 16, 73100 Lecce, Italy – Division IAFES (Impacts on Agriculture, Forests and Ecosystem Services), Viale Trieste 127, 01100 Viterbo, Italy (www.cmcc.it/it/divisions/iafes).

“CRESCENDO” H2020 Project – Vegetation modelling principal investigator

Business or sector Research Development

16 May 2016 - 15 Oct 2018

Researcher (III level, part-time 50%)

National Research Council of Italy (CNR), ISAFOM, Institute for Agricultural and Forestry System in the Mediterranean. Via Cavour 4-6 I-87036 Rende (CS) Italy (www.isafom.cnr.it).

“AmbiTecFilLegno” PON Project – Vegetation modelling and future projections principal investigator

Business or sector Research Development

1 Jan 2016 - 15 May 2017

Junior scientist (III level, part-time 50%)

Foundation Euro-Mediterranean Centre on Climate Change (CMCC) – Via Augusto Imperatore 16, 73100 Lecce, Italy – Division IAFES (Impacts on Agriculture, Forests and Ecosystem Services), Viale Trieste 127, 01100 Viterbo, Italy (www.cmcc.it/it/divisions/iafes).

“CRESCENDO” H2020 Project – Vegetation modelling principal investigator

Business or sector Research Development

1 Jan 2015 - 31 Dec 2015

Junior scientist (III level)

Euro-Mediterranean Centre on Climate Change (CMCC) – Via Augusto Imperatore 16, 73100 Lecce, Italy – Division IAFES (Impacts on Agriculture, Forests and Ecosystem Services), Viale Trieste 127, 01100 Viterbo, Italy (www.cmcc.it/it/divisions/iafes).

“GEMINA” Project (MIUR/MATTM n. 232/2011), WP A.2.8. “Ecosistemi terrestri e cambiamenti climatici” activity: “Sviluppo e validazione di moduli del modello 3D-CMCC-FEM” (Prot. 2565/14/CMCC) – Vegetation modelling development principal investigator

Business or sector Research Development

1 Jan 2014 - 31 Dec 2014

Junior scientist (III level)

Euro-Mediterranean Centre on Climate Change (CMCC) s.c.a.r.l. – Via Augusto Imperatore 16, 73100 Lecce, Italy – Division IAFES (Impacts on Agriculture, Forests and Ecosystem Services) Via Pacinotti 5, 01100 Viterbo, Italy (<http://www.cmcc.it/it/divisions/iafes>).

“GEMINA” Project (MIUR/MATTM n. 232/2011), WP A.2.8 “Ecosistemi terrestri e cambiamenti climatici” activity: “Sviluppo ed implementazione di modelli di ecosistemi forestali a diverse scale spaziali” – Vegetation modelling development principal investigator

Business or sector Research Development

1 May 2013 - 31 Aug 2013

Post-Doc

Euro-Mediterranean Centre on Climate Change (CMCC) s.c.a.r.l. – Via Augusto Imperatore 16, 73100 Lecce, Italy – Division IAFES (Impacts on Agriculture, Forests and Ecosystem Services) Via Pacinotti 5, 01100 Viterbo, Italy (<http://www.cmcc.it/it/divisions/iafes>).

“FUME” Project, WP 2.2 “Realizzazione Scenari di cambiamento di distribuzione della vegetazione nel Mediterraneo” – Vegetation modelling development principal investigator

Business or sector Research Development

1 Sept 2012 - 31 Dec 2013

Post-Doc

Euro-Mediterranean Centre on Climate Change (CMCC) s.c.a.r.l. – Via Augusto Imperatore 16, 73100 Lecce, Italy – Division IAFES (Impacts on Agriculture, Forests and Ecosystem Services) Via Pacinotti 5, 01100 Viterbo, Italy (<http://www.cmcc.it/it/divisions/iafes>).

“ORIENTGATE” Project, WP 4 task 2 pilot study 1, “Applicazione del modello 3D-CMCC Forest Model” – Vegetation modelling development principal investigator

Business or sector Research Development

1 Sept 2011 - 31 Dec 2013

Post-Doc

Euro-Mediterranean Centre on Climate Change (CMCC) s.c.a.r.l. – Via Augusto Imperatore 16, 73100 Lecce, Italy – Division IAFES (Impacts on Agriculture, Forests and Ecosystem Services) Via Pacinotti 5, 01100 Viterbo, Italy (<http://www.cmcc.it/it/divisions/iafes>).

“GEMINA” Project (MIUR/MATTM n. 232/2011), “sviluppo ed implementazione del modello 3D-CMCC Forest Model ed implementazione del modello vegetazionale nel framework CLM” (Prot. Nr. 1873/12/CMCC) – Vegetation modelling development principal investigator

Business or sector Research Development

1 Jul 2011 - 31 Aug 2011

Post-Doc

University of Tuscia, Department DISAFRI, Viterbo (Italy)

Agreement MINISTERO AMBIENTE expert advice Kyoto 2010-2011 “Implementazione del modello 3D-CMCC con dati in situ e satellitari” (Prot. Nr. 113) – Vegetation modelling development principal investigator

Business or sector Research Development

1 Apr 2011 - 31 May 2011

Post-Doc

University of Tuscia, Department DISAFRI, Viterbo (Italy)

“KLAUS” Project (agreement ESA - Sistema GmbH - University of Tuscia) 2011 “Implementazione del modello 3D-CMCC con dati in situ e satellitari” (Prot. Nr. 320/322) – Vegetation modelling development principal investigator

Business or sector Research Development

Jan 2007 – Nov 2007

Research assistant

“Sapienza” – University of Rome, Department of Botany, Rome (Italy)

Business or sector Research Development

EDUCATION AND TRAINING

Nov 2007 - Mar 2011

Philosophy Doctor (Ph.D.) in Forest Ecology

University of Tuscia, Faculty of Forestry Science, Viterbo (Italy)

Ph.D. thesis title: “*Sviluppo di un modello ecologico-forestale per foreste a struttura complessa*”.

Supervisor Prof. Riccardo Valentini.

(Nr. Registro 1 Nr. Ord. 598)

Nov 1999-Dec 2006

Master degree/laurea in Natural Science

Sapienza – University of Rome, Faculty Earth Science, Rome (Italy)

Master thesis title: “*Contributo alla conoscenza della flora vascolare del Lazio: distribuzione del genere Acer L. e considerazioni tassonomiche*”.

Supervisor Dott. Andrea Pavesi

Sep 1993- Jul 1998

High school scientific diploma

Liceo Scientifico Statale Manfredi Azzarita, Rome (Italy)

May 2009

C-Programming course

CINECA (Bologna, Italy) “Introduction to C” (Prof. C. Gheller)

University of Siena (Siena, Italy), "Statistical Analyses for Botanists and Ecologists" (Prof. J. Leaps)

14-18 May 2007

GIS course

IpT s.r.l. Rome (Italy). Base and Advanced course ArcGis 9.x(Model builder, Spatial Analyst, 3D Analyst))

CONFERENCES, POSTERS AND PRESENTATIONS

8-12 April 2019

European Geoscience Union (EGU) General Assembly 2019

Vienna (Austria), two oral presentations: "Soil biogeochemical cycles under climate change: a new model scheme implementation", C. Biondo, **A. Collalti**, D. Papale. "Global Variability of simulated and observed vegetation growing season onset and offset", A. Bombelli, D. Peano, S. Materia, **A. Collalti**, A. Alessandri, A. Anav, S. Gualdi; and one poster: "Estimation the olive trees traits combining Bayesian calibration, model and climate drivers", C. Trotta, **A. Collalti**, C. Biondo, G. Pellicone, G. Matteucci, A. Brunori, P. Proietti.

10-14 Dec 2018

American Geophysical Union (AGU) Fall Meeting 2018

Washington D.C. (USA) poster: "3D-CMCC-OLIVE: a process-based model to analyze the effects of the human activities and climate changes in olive orchards", C. Trotta, **A. Collalti**, M. Santini, C. Biondo, L. Regni, A. Brunori

5-9 Nov 2018

4th Italian National Congress of Silviculture

Torin (Italy), three oral presentations: "Impact of forest management and climate change at 3 European forests", C. Trotta, C. Biondo, **A. Collalti**; "Climate change mitigation by forest: a case study on the role of management on carbon dynamics of a pine forest in South Italy", G. Pellicone, **A. Collalti** et al.; "Soil Biogeochemical cycles under climate change: A new model implementation", C. Biondo, **A. Collalti**, D. Papale.

8-10 Oct 2018

CRESCENDO General Assembly

Toulouse (France), oral presentation: "Global variability of simulated and observed vegetation growing season onset/offset", D. Peano, S. Materia, **A. Collalti**, A. Alessandri, A. Anav, A. Bombelli, S. Gualdi.

8-13 Apr 2018

European Geoscience Union (EGU) General Assembly 2018

Vienna (Austria), two posters: "Soil biogeochemical cycles under climate change: a model scheme implementation", C. Biondo, **A. Collalti**, C. Trotta, D. Papale. "Variability of growing season onset/offset in satellite-observation and in Community Land Model version 4.5.", D. Peano, **A. Collalti**, S. Materia, A. Alessandri, A. Anav, S. Gualdi

9-10 Nov 2017

Cost-Action PROFOUND Final conference

Potsdam (Germany), oral presentation: "Reproducing reproduction: developing a framework for the parameterisation of mast seeding in forest dynamics", A. Hackett-Pain, ..., **A. Collalti**, ..., G. Vacchiano. Poster "Combined climate and management effects in future forests: results from ISIMIP simulations with 3D-CMCC-CNR-FEM", C. Trotta, **A. Collalti**, C. Biondo, G. Matteucci

18 Sep 2017

IUFRO 125th Anniversary congress

Nancy (France), oral presentation: "Different method to assess water use efficiency in a mediterranean beech forest", E. D'Andrea, C. Trotta, **A. Collalti**, N. Rezaie, A. Scartazza, G. Battipaglia, P. Bombi, G. Matteucci

21 Jun 2017

Annual CESM workshop, Land Model Working Group Session

Boulder (USA), oral presentation: "The CMCC contribution to EU CRESCENDO project: Preliminary analysis based on CLM4.5 results", D. Peano, **A. Collalti**, S. Materia, P. Fogli, A. Cherchi, T. Lovato, M. Santini, S. Gualdi, S. Masina

23-28 Apr 2017

European Geoscience Union (EGU) General Assembly 2017

Vienna (Austria), oral presentation: "Forest management as possible driver in mitigating climate change impacts at northern latitudes". **A. Collalti**, C. Trotta, M. Santini, G. Matteucci.

30-31 Feb 2017

CRESCENDO land use meeting

Hamburg(Germany), oral presentation "Update on CMCC-ESM land model" Peano D., **Collalti A.**, Materia S., Fogli P., Cherchi A., Lovato T., Santini M., Gualdi S., Masina S.

12-16 Dec2016

American Geophysical Union (AGU) Fall Meeting 2016

San Francisco (USA) poster: "Robust assessment of future forest development across Europe by 3D-CMCC Forest Ecosystem Model", L. Caporaso, **A. Collalti**, C. Trotta, M. Santini

- 9-12 Nov 2016
COST Action FP1304 PROFOUND 3rd Joint Working Group and Management Committee Meeting
Krakow (Poland) poster: *"Combined climate and management effects in future forests: preliminary results from ISIMIP experiments for Sorø with 3D-CMCC FEM"*. **A. Collalti** et al..
- 27-29 Sep 2016
CRESCENDO General Assembly
Rome (Italy)poster: *"The CMCC contribution to CRESCENDO WP1, Development and improvement of continental biogeochemical processes"* Peano D., **Collalti A.**, Materia S., Fogli P.G., Cherchi A., Lovato T., Santini M., Gualdi S., Masina S.
- 30 May 2016 -1 Jun 2016
CMCC annual meeting
Marina di Ugento (Italy), oral presentation *"Challenges and opportunities from consolidated forest and climate model integration"*, **A. Collalti**, M. Santini
- 18 Dec 2014
American Geophysical Union (AGU) Fall Meeting 2014
San Francisco (USA) poster:*"Assessing NEE and Carbon Dynamics Among European Forest Ecosystems: Development and Validation of a New Phenology and Soil Carbon Routines within the Process-Oriented 3D-CMCC-Forest Ecosystem Model"*, S. Marconi, **A. Collalti**, M. Santini, R. Valentini.
- 9-13 Dec 2013
American Geophysical Union (AGU) Fall Meeting 2013
San Francisco(USA),two posters: *"Description and application of the 3D-CMCC FEM on multi-temporal NDVI satellite imagery and future scenarios"* **A. Collalti**, S. Natali, A. Nolè, M. Mattiuzzi, S. Marconi, M. Santini, R. Valentini, *"Simulating Carbon cycle and phenology in complex forests using a multi-layer process based ecosystem model; evaluation and use of 3D-CMCC-Forest Ecosystem Model in a deciduous and an evergreen neighbouring forests, within the area of Brasschaat (Be)"*, S. Marconi, **A. Collalti**, M. Santini, R. Valentini.
- 31 Jan - 28 Feb 2013
CESM-Land Model Working Group Meeting (SDWG, LMWG, BGCWG)
Boulder (USA), poster *"A dynamic ecosystem growth model for forest at high structure complexity"*. **A. Collalti**.
- 31 Jan- 28 Feb 2013
Visiting scientist at the NCAR-Land Model Working Group (LMWG)
National Centre for Atmospheric Research (NCAR), Boulder, Colorado(USA)
- 11-13 Jun 2013
CMCC annual meeting
Marina di Ugento (LE), oral presentation *"3D-CMCC Forest Model: a dynamic ecosystem growth model for forest at high structure complexity"*, **A. Collalti**, L. Perugini, R. Valentini.
- 2-7 May 2012
European Geoscience Union (EGU) General Assembly 2012
Vienna (Austria) poster *"A dynamic ecosystem growth model for forests at high complexity structure"*, **A. Collalti**, L. Perugini, T. Chiti, G. Matteucci, A. Oriani, M. Santini, D. Papale, and R. Valentini and oral presentation: *"Assimilation of high resolution satellite imagery into the 3D-CMCC forest ecosystem model"*, S. Natali, **A. Collalti**, A. Candini, A. Della Vecchia, and R. Valentini .
- 6-8 Feb 2012
ESA 2nd TERRABITES Symposium
Frascati (Italy), poster title *"Integration of high resolution satellite imagery with the 3D-CMCC Forest Ecosystem Model"*, **A. Collalti**, R. Valentini, S. Natali, A. Scremin
- 13-15 Jun 2011
CMCC annual meeting
Otranto (Italy), oral presentation *"3D-CMCC Forest Model: A dynamic process-based model for predicting growth in managed and un-managed forests"*, **A. Collalti**, L. Perugini, R. Valentini .
- 30-31 Mar 2011
ESA EUSC JRC 2011 workshop
Ispra (Italy), oral presentation *"USER-DRIVEN APPLICATION DEMONSTRATOR IN THE KLAUS PROJECT"*, S. Natali, A. Scremin, T. Nagler, H. Takahashi, S. Greifeneder, **A. Collalti**, R. Valentini within the KLAUS Project.

- H2020 “eLTER PLUS” (European Long-Term Ecosystem and socio-ecological Research Infrastructure) (CNR-ISAFOM).
- PON “OT4CLIMA” (Osservazione della terra e cambiamenti climatici)
- H2020 “Desira” (Digitisation: Economic and Social Impacts in Rural Areas) (CNR-ISAFOM)
- H2020 “LANDSUPPORT” (Development of Integrated Web-Based Land Decision Support System Aiming Towards the Implementation of Policies for Agriculture and Environment) (CNR-ISAFOM)
- EFI-funded “FORMASAM” (FORest MAnagement Scenarios for Adaptation and Mitigation) (CNR-ISAFOM)
- Climate-KIC “MADAMES” (Mitigation and ADaptation Analysis for Mediterranean Ecosystem Services) (CMCC-IAFES)
- Interreg “REFORM” (REsilience of FORest Mixtures) (CMCC-IAFES & University of Tuscia)
- H2020 “CRESCENDO” (Coordinated Research in Earth Systems and Climate: Experiments, kNowledge, Dissemination and Outreach) (CMCC-IAFES)
- Cost-Action FP1304 “PROFOUND” (Towards robust PROjections of European FOrests UNDer climate change) (CMCC-IAFES & CNR-ISAFOM)
- ERA4CS “MEDSCOPE” (MEDiterranean Services Chain based On climate PrEdictions) (CMCC-IAFES)
- PON “AmbiTecFilLegno” (Laboratorio pubblico-privato per l’applicazione di tecnologie innovative ad elevata sostenibilità ambientale nella filiera foresta-legno-energia) (CNR-ISAFOM)
- EU-Life “Olive4Climate” (CMCC-IAFES & University of Tuscia)
- SEE “ORIENTGATE” (A network for the integration of climate knowledge into policy and planning) (CMCC-IAFES)
- FP7 “CLIMAFRICA” (“Climate change predictions in Sub-Saharan Africa: impacts and adaptation) (CMCC-IAFES)
- FISR “CarboItaly” (CMCC-IAFES & University of Tuscia)
- FP7 “FUME” (Forest fire under climate, social and economic changes) (CMCC-IAFES)
- FISR “GEMINA” (CMCC-IAFES)
- PRIN “CARBOTREES” (CMCC-IAFES & University of Tuscia)
- ESA-funded “KLAUS” (KEO Demonstrator with Models for Land Use Management Context) (University of Tuscia)
- FP6 “CIRCE” (Climate change and Impact Research: The Mediterranean Environment) (University of Tuscia)
- “CONECO-FOR” (CONtrollo ECOSistemi FOrestali) (Sapienza, University of Rome).
- “BIOREFUGIA” (Potential biorefugia in response to climate change for the main tree species of Level II permanent plots in Central Italy) (Sapienza, University of Rome)

PERSONAL SKILLS

Mother tongue(s)

Other language(s)

Italian

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Spanish	B1	B1	A2	A2	A2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
Common European Framework of Reference for Languages

Communication skills

Excellent verbal and written communication skills both in an office environment and with external stakeholders. Experienced at giving presentations at meetings and workshops with large audiences.

Curriculum Vitae

Operating systems: Linux (Ubuntu, Xubuntu, Kubuntu, Mint), Windows

Programming languages: C, Bash Shell, R

GIS software: ArcView 3.X, ArcGis 9.X., QuantumGis 1.4.x

Remote Sensing software: Envi 4.7, NcView 2.x

Microsoft Office, Open Office, Libre Office.

OCR FineReader, SPSS Plus, Statistica, Graph Pad

Paintshop Pro, Adobe Photoshop, Google Earth, Nasa World Wind.

Programming IDE: Eclipse, Code:Blocks, Microsoft Visual C++, R-studio

Models: LPJ, LPJ-Why-Me, 3-PG, 3-PGs, 3-PGday, Treedyn3, Triplex, Formix, C-Fix, Sortie-ND, 3D-CMCC FEM, 3D-CMCC-CNR BGC, CLM x.x, CTEM Model, BIOME-BGC 4.x

Organisational / managerial skills

Experience and expertise in several fields, gained during the participation at several national and international research and consultancy projects and during the supervision of degree and PhD students. Good ability in coordinating working groups, the 3D-CMCC-FEM lab., and organizing work activities, by respecting goals and deadlines

Driving licence

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ADDITIONAL
INFORMATION

Nominees and leadership

- Nominated member of the Management Committee of the COST Action FP1304 “Towards robust PROjections of European FOrests UNder climate change” (PROFOUND), 2014-2018 (http://cost-profound.eu/site/organisation/management-committee/alessio_collalti)
- Task group leader (TG6, “Modelling forest structure”) of the COST Action FP1304 (<http://cost-profound.eu/site/working-groups/wg2/tg6-modelling-forest-structure/>)
- National coordinator for the “Forest Model Working Group” of the Italian Society of Silviculture and Forest Ecology (SISEF) (<https://sisef.org/gdl/modellistica/>)
- Research unit leader (RU1) at CMCC-IAFES “Modelling the impacts on terrestrial ecosystems and their services” (www.cmcc.it/it/divisions/iafes)
- Forest Modelling Lab. head (www.forest-modelling-lab.com/team)
- Nominated member of the scientific board at SEA-TUSCIA s.r.l. approved University of Tuscia Spin-Off (<http://seatuscia.com/it/chi-siamo/cits>)
- Nominated “Game Changer forestry sector”, H2020-Project “Desira” (<https://cordis.europa.eu/project/rcn/223227/factsheet/en>)
- Nominated member of the CNR-working group on Carbon Cycle

Memberships

- Member of the Italian Society of Silviculture and Forest Ecology (SISEF)
- Member of the extended committee of the Italian Society of Silviculture and Forest Ecology (SISEF) (<https://sisef.org/society/cd-sisef/>)
- Member of the scientific reference group for the Inter Sectoral Impact - Model Intercomparison Project, Forestry sector (ISI-MIP, <https://www.isimip.org/protocol/>)
- Member of the European Geoscience Union (EGU) and of the American Geophysical Union (AGU)

Editorial roles

- Reviewer for: iForest, Carbon Management and Plant, Soil Journal, European Journal of Remote Sensing, Biogeosciences, Forest Ecology and Management, Ecological Modelling, Science of the Total Environment (STOTEN), Journal of Applied Ecology, Geoscientific Model Development, Agricultural and Forest Meteorology, Landscape Ecology, Trees, PNAS
- Co-Editor for the *iForest - Biogeosciences and Forestry* (ISSN 1971-7458; www.sisef.it/forest/static/?id=board)
- Co-Editor for the *Forest@ - Journal of Silviculture and Forest Ecology* (ISSN 1824-0119; <http://foresta.sisef.org/static/?id=board>)
- Co-Editor for *Annals of Forest Science* Special Issue “Impacts of natural disturbances on forest ecosystems under climate change: large-scale analysis and modelling” (ISSN: 1286-4560; <https://ist.blogs.inrae.fr/afs/2019/10/16/new-special-issue-impacts-of-natural-disturbances-on-forest-ecosystems-under-climate-change-large-scale-analysis-and-modelling/>).
- Co-Editor for *Climata* Special Issue “Climate Change Impact on Plant Ecology” (ISSN: 2225-1154; https://www.mdpi.com/journal/climate/special_issues/climate_plant_ecology).
- Co-Editor for *Ecology and Evolutionary Biology* (ISSN: 2575-3789; <http://www.sciencepublishinggroup.com/journal/editorialboard?journalid=231>)
- Associate Editor for *Frontiers in Ecology and Evolution*, special section “Models in Ecology and Evolution” (ISSN: 2296701X; <https://www.frontiersin.org/journals/ecology-and-evolution/sections/models-in-ecology-and-evolution#editorial-board>)
- Editorial Board member SISEF.ORG (<https://sisef.org/sisef/society/redazione/>)
- Editorial board member and Co-Editor Special Issue “Allocation of Woody Biomass in Forest Trees Based on Environmental Conditions”, *Forests* journal (ISSN 1999-4907; <https://www.mdpi.com/journal/forests/editors>)

Activities

- Principal Investigator for CNR-ISAFOM within the European Forest Institute funded FORMASAM (FORest MANAGEMENT Scenarios for Adaptation and Mitigation) EFI-network project (Grant Agreement EFI Network Fund n. 01/2018)
- Principal Investigator of the 3D-CMCC-FEM (www.forest-modelling-lab.com/dr-alessio-collalti)
- Principal Investigator at the Inter Sectoral Impact - Model Intercomparison Project (ISI-MIP, <https://www.isimip.org/impactmodels/>)
- Affiliated scientist at Foundation Euro-Mediterranean Centre on Climate Change (1 Feb 2019 – 31 Dec 2019; Prot. N. 153/CMCC/2019)

Tutorship

- M.D. co-tutor “Assessing NEE and Carbon Dynamics among 5 European Forest types: Development and Validation of a new Phenology and Soil Carbon routines within the process oriented 3D-CMCC-Forest-Ecosystem Model”(2014). M.D. student: S. Marconi (n. matr. SFA-LM 128), tutors: T. Chiti, R. Valentini, **A. Collalti** (U.S. – Italy Fulbright programme winner)
- Ph.D.co-tutor “Climate change mitigation by forests: a case study on the role of management on carbon dynamics of a pine forest in South Italy” (2018). Ph.D. student: G. Pellicone, tutors: G. Scarascia-Mugnozza, G. Matteucci, **A. Collalti**
- Ph.D.co-tutor “Modelling the effects of climate change on soil heterotrophic respiration in forest ecosystems. Empirical versus Mechanistic approach”. Ph.D. student: C. Biondo, tutors: D. Papale, **A. Collalti**
- Internship co-tutor “Tornosubito 2017” project titled “Tools for the analysis of natural and semi-natural systems: developing and testing a robust algorithm for regional to global scale emissions of BVOCs”, G. Mengoli, tutors: **A. Collalti**, I.C. Prentice

Invited speaker

- INRA, COST ACTION FP0603 final meeting, Bordeaux (France). “3D-CMCC Forest Model, a dynamic ecosystem growth model for forests at high structure complexity”, **A. Collalti**, L. Perugini, G. Matteucci, R. Valentini (inviting G. Matteucci) <http://www.isa.ulisboa.pt/proj/fp0603forestmodels/FM/08-Collalti.pdf>, 2 March, 2012.
- CNRS-LSCE, Gif sur Yvette (France). “3D-CMCC Forest Ecosystem Model: a process-based model for forest at high structure complexity”. **A. Collalti**. (inviting B. Poulter, P. Ciais), 17 June, 2013
- CREA Centro di Ricerca per la Patologia Vegetale, Rome (Italy). Workshop “La modellistica come strumento per simulare la vulnerabilità delle piante a fattori ambientali e fitopatologici opportunità e sfide”. **A. Collalti** (http://sito.entecra.it/portale/cra_avviso.php?id=19965&tipo=convegno&lingua=IT), 10 January, 2017
- Palazzo della Provincia di Cosenza, Cosenza (Italy). Workshop “Cambiamento Climatico Ultima Frontiera, Le Foreste Italiane tra mitigazione ed adattamento”. **A. Collalti** (inviting Ordine dei Dottori Agronomi e Forestali di Cosenza), 22 March, 2019.

**ABSTRACTS AND
ARTICLES IN
PROCEEDINGS
(peer-reviewed)**

- Matteucci G., **Collalti A.**, ..., Scarascia Mugnozza G.. "Drivers and responses of ecosystem processes at the Collelongo beech forest: main results and lessons learned over 30 years of research and monitoring in a period of changes" EGU2020-20556, *EGU General Assembly 2020*, Vienna, Austria. <https://doi.org/10.5194/egusphere-egu2020-20556>
- Biondo C., **Collalti A.**, Dalmonech, D., Papale, D.. "Il ruolo dei cicli biogeochimici nel suolo nella mitigazione dei cambiamenti climatici da parte degli ecosistemi forestali: quanto risultano incerte le stime dei modelli?", *XII Congresso Nazionale SISEF*, La Scienza Utile per le Foreste: Ricerca e Trasferimento, Palermo, 12-15 December, 2019.
- Biondo C., **Collalti A.**, Dalmonech D., Papale D.. "Soil biogeochemical cycles under climate change: uncertainty analysis of forest-climate feedbacks", *SISC Conference 2019 – CLIMRISK19*, Trento 23-25 October, 2019
- Marano G., **Collalti A.**, Langella G., Matteucci G., Terribile F.. "The operational implementation of soil functions and sustainable forest management through LANDSUPPORT Web-Based Land Decision Support System", *WSC 2019: Wageningen Soil Conference 2019*, Wageningen, 27-30 August, 2019
- Bombelli A., ..., **Collalti A.**, ..., Gualdi S.. "Global variability of simulated and observed vegetation growing season onset and offset", Vol. 21, EGU2019-13609, 2019, *EGU General Assembly 2019*, Vienna, Austria, 7-12 April, 2019.
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I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes me, my qualifications, and my experience. I understand that any wilful misstatement described herein may lead to my disqualification or dismissal, if engaged. I authorise the use of my personal data in compliance with Italian Legislative Decree 196/03.

Viterbo, May 11, 2020

Dr. Alessio Collalti

A handwritten signature in black ink, appearing to read 'Alessio Collalti', positioned below the printed name.