

Curriculum Vitae Europass

Personal information

First name/ Surname

Giorgio Vacchiano

Desired employment / Occupational field	Scientific research Forest ecology and management Statistics and modeling Environmental monitoring and planning Science and environmental education
Summary of research	I have been a post-doc at the Department of Agricultural, Forest and Food Sciences, University of Turin (Italy), from 2008 to 2016. My research focused on modeling forest dynamics as a tool to understand ecosystem processes and forecast the provision of ecosystem services by Alpine forests.
	In 2016-17 I have been working at the Joint Research Centre of the European Commission, Directorate D. Unit Bio-economy, to characterize future blomass available from EU forests in the context of the EU Biomass Mandate and Bioeconomy Strategy.
	In the framework of the current scenarios of change, I strive to use quantitative analysis and simulation of forest dynamics at the individual, population, and landscape level to help develop timely adaptations for management strategies by local stakeholders and policymakers.

Current occupation

Dates
Occupation or position held
Main activities and
responsibilities

February 1th, 2018 - ongoing Associate professor in silviculture and forest planning Research and teaching

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REISU14004 - REGISTRO PROTOCOLLO - 0004496 - 07/04/2021 - C24 - E

Name and address of employer DISAA, Università di Milano, via Celoria 2, 20123 Milano, Italy Type of business or sector Scientific research, Academia, Forest management Recent occupation Dates October 16th, 2016 - January 30th, 2018 Occupation or position held Contract agent - Scientific project officer Maintaining and improving the European Forestry Dynamics model and develop the Main activities and forest modeling framework of the EU JRC responsibilities Name and address of employer EU JRC, Unit D1 Bioeconomy, Via E. Fermi 2749, TP 261, Ispra (VA), Italy Type of business or sector Scientific research, Policy, Forest management

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Organizational skills and competences	 Teaching plans, high school education and university-level classes Preparation of seminars and lectures for university students and faculty Organizing committee in national and international conferences Preparation and supervision of field training for students and academics Managing project meetings and interacting with national and international scientific partners Planning and carrying out field sampling campaigns HR Management and training of voluntary personnel Creation and management of shared databases Collection and management of bibliographic sources
Social skills and competences	 Participation in national and international research teams Dissemination of academic results, extension and scientific Interaction with local administrations and funding bodies Management of field teams Student mentorship, collaboration fellow academics Summer tourist activities in National Parks Activities for children and teens (in city parish, from 1994 to 2002) Regional coordinator of an international youth movement (2001 to 2008)
Other skills and competences	 Photography with digital and film cameras in small and medium format Amateur astronomical observation, use of optical instruments Playing musical instruments, reading music, theory and history of music
License, patents and memberships	International driving license (passenger cars) Certified Forester Certified high school teacher Membership: Pro Silva, It. Soc. Landscape Ecology, It. Soc. Silviculture and Forest Ecology, Italian Alpine Club, AAAS, Ecological Society of America
References	Prof. Renzo Motta – Full professor in Forest ecology and Silviculture Università degli Studi di Torino, DISAFA Largo Braccini 2 – 10095 Grugliasco (TO) Italy. Emall: renzo.motta@unito.lt Dott. John D. Shaw – FIA Researcher and data analyst United States Forest Service, Rocky Mountain Research St, 507 25th Street – 84401 Ogden, UT (USA). Email: idshaw@fs.fed.us Prof. Andreas Rigling – Head of Forest dynamics research unit Swiss Federal Institute for Forest, Snow and Landscape Research WSL
Signature	Zürcherstrasse 111 CH-8903, Birmensdorf (CH), Email: andreas.rigling@wsl.ch Lauthorize the treatment of my personal data according to the Italian D. Lgs 196/03.

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Technical skills and competences

Project and research management:

- Design and supervision of research projects
- Finding sources of funding for scientific research
- Supervision of work packages in national and European research projects
- Summarizing state-of-the-art and identifying knowledge gaps
- Production of summary reports and academic papers (ISI journals)
- Financial accounting of national and European projects (Interreg)
- Dissemination of results in international conferences, technical manuals and meetings with other professionals and research partners

Professional skills:

- Experimental design and sampling strategies
- Collection of field data, use of forest sampling equipment
- Collection of plant and soil samples, identification of plant species
- Collecting and analyzing dendroecological and tree health data
- Collecting and analyzing climate, soil and site data
- Collecting and managing spatially explicit data (GPS and GIS, cartography, cadastrial)
- Statistical data analysis (descriptive, inferential, spatial, multivariate statistics)
- Creating and managing relational databases
- Use and calibration of computer models for forecasting forest dynamics

Teaching skills:

- Production of teaching aids (handouts, presentations, exercises)
- Environmental education (university-level class, continuing education for professionals, field weeks, non-profit organizations)
- Supervision of undergraduate and graduate student research and dissertations

Computer skills and competences

- Windows 9x/XP/NT/Vista, MS Office and database (Access, FoxPro)
- Image analysis and editing (Adobe Photoshop)
- Programming (HTML, Fortran)
- Design of institutional and personal websites
- OS setup and management, data recovery

Professional software:

- GIS packages: ESRI ArcView 3.x/ArcGIS 10.x, GPS Pathfinder
- Analysis of remotely sensed imagery (IDRISI, ER Mapper, ENVI, PCI Geomatica)
- Landscape ecology (Fragstats, eCognition)
- General statistics packages (R, SPSS, SAS, S+), multivariate and sensitivity analysis (Canoco, PC-Ord, SimLab)
- Growth and yield models, simulators of forest and landscape dynamics (FVS, LANDIS)

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Extension activities

May 2017 April 2016 February 2016 **April 2015** April 2015

February 2015

Seminar on modelling wind damage risk in forests (Università degli Studi di Torino) Ambiente Italia (interview as environmental expert, Rai TV Italy)

Citizen seminar on climate change (Università degli Studi di Torino)

Scienzattiva (web-based scientific information for teachers and students) Citizen Seminar on disturbance ecology (Orto Botanico, Torino Italy)

Citizen seminar on tropical deforestation (Università degli Studi di Torino)

October 2009 Alpl 365 (science fair on mountain environments, Torino)

Training courses

28-29 June 2017

14 June 2017

9-12 March 2017

1-4 February 2017

July - August 2015

November 2011 - March 2012

December 2011 - February 2012

28 November - 2 December

21-25 November 2011

7-15 November 2011

12-18 September 2011

9-23 July 2011

19-20 April 2011

19-22 April 2010

11-13 January 2010

1-3 July 2009 23 March 2008

9-12 March 2006

6-8 May 2005

Sensitivity analysis for modellers (JRC Ispra)

Introduction to Google Earth Engine (JRC Ispra)

The Canadian Carbon Budget Model (Victoria, BC)

Bayesian analysis in R (JRC Ispra)

CERN High School teacher training (Geneva)

Master in European project writing (Torino)

Geographic information Systems (GIS) ECDL

Introduction to object-oriented programming in C# (Grugliasco, TO)

Microsoft SQL Server

Statistics and data analysis in R (Grugliasco, TO)

Denroecological fieldweek (Engelberg, CH)

iPromo, natural risk management in mountain areas (Ormea, CN)

Writing to communicate science (Torino)

Impacts of climate change on forests in Europe (Freiburg, D)

LANDIS meeting and workshop (Madison, USA)

Silviculture in direct protection forestss (Serrayer, CH)

Data analysis with SPSS (Milano)

Civic participation in environmental problem solving (San Francisco, USA)

Sustainable development (Castelgandolfo, Roma)

Language skills

Mother tongue(s) Other language(s)

Certifications

Italian

English, French

TOEFL (computer based) 283/300, Certificate of Advanced English (2013)

Self-assessment European level (*)

English French

Understanding		Speaking		Writing
Listening	Reading	Interaction	Production	
C2	C2	C2	C2	£2 ·
B1.	82	81	A2	A1

^(*) Common European Framework of Reference for Languages

Teaching experience

Dates

Occupation or position held

Main activities and
responsibilities

Name and address of employer

Dates

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April 23, 2018 to June 21, 2018

Assistant professor in forest planning (50 teaching hours)

Chair of forest planning within the Bsc major in Conservation and sustainable development of mountain areas (http://www.unimontagna.lt/en/percorsi-didattici/bsc-valorizzazione-e-tutela-dellambiente-e-del-territorio-montano)

DISAA - Università degli Studi di Milano, via Celoria 2, Milan (Italy)

November 12, 2004 to May, 2016

Teaching Assistanships (150 teaching hours)

Statistics T.A., Agricultural Science major (first year, 100 students);

Seminars (30 hours) in Forest Ecology and Mountain forest silviculture courses, Forestry major (first year, 60 students), mentorship of undergraduate and graduate student. Field weeks. Forest Ecology Class: field sampling, recognition of plant species, forest management, data processing.

Facoltà di Agraria - Università degli Studi di Torino, Via da Vinci 44, Grugliasco TO (Italy)

March 12, 2015 to June 30, 2015

Teaching trainee (250 teaching hours)

Trainee in high school Biology, Chemistry, and Earth Science courses. Teaching classes and co-teaching, test preparation and evaluation

Technical College E. Majorana. Via Baracca 80, Grugliasco TO (Italy)

October 12, 2013 to June 30, 2014

High school substitute teacher (60 teaching hours)

Teacher in high school Biology, Chemistry, and Earth Science courses. Teaching classes labs, test preparation and evaluation

ITGS G. Guarini, Via Salerno 60, Torino (Italy)

27th-28th June 2011

Course teacher in "Forest Simulation Models"

Organizer and teacher in a course for forest technicians

Libera Università di Bolzano, Piazza Università 1, Bolzano (Italy)

March 2008 to May 2016

Seminar speaker (16 hours)

Scientific seminars on forest modeling, deforestation, and ecosystem services

Università degli Studi di Bologna, Università degli Studi di Torino, Università degli Studi di Milano, Università degli Studi di Padova, Università degli Studi di Udine (Italy)

Education

Dates

September 23th, 2017 Title of qualification awarded Abilitazione Scientifica Nazionale settore 07/B2

Name and type of organisation

Dates July 23th, 2015

Title of qualification awarded

Name and type of organisation

Certificated High School Teacher in Biology, Chemistry and Earth Science

Università degli Studi di Milano

Ministero dell'Università e della Ricerca

Dates

Title of qualification awarded

February 5th, 2007 Ph.D. In Forest management and planning (Tutor: prof. Renzo Motta)

Dissertation: Modeling stand dynamics in Scots pine (Pinus sylvestris L.) forests of SW

Name and type of organisation Università degli Studi di Torino

Dates

May 31st, 2004

Title of qualification awarded Occupational skills covered Name and type of organisation

Certified Forester and Agronomist (178/240) As in National Acts no. 3/1976 and 152/1992 (Italy)

Ordine dei dottori agronomi e forestali della provincia di Torino

July 11th, 2003

Title of qualification awarded Name and type of organisation MS degree in Forestry and Environment (110/110 cum laude)

Università degli Studi di Torino - Facoltà di Agraria

Dates July 6th, 1998

Title of qualification awarded Name and type of organisation

Classical studies - High school diploma (60/60) Liceo Ginnasio "C. Cavour", Torino (Italy)

Professional experience

Dates

June 2016 - July 2016

Occupation or position held

Main activities and responsibilities

Name and address of employer Type of business or sector

Consultant

Forest management plan of the City of Frassino (CN): field survey, statistical analysis, ecosystem service assessment, silvicultural plan

SEAcoop, Cso Palestro 9, 10111 Torino (Italy)

Forestry consultant

Dates

February 2011 - February 2012

Occupation or position held

Main activities and

responsibilities

Name and address of employer Type of business or sector Consultant

Forest management plan of the City of Sampeyre (CN): field survey, statistical analysis,

forest road plan and survey, silvicultural plan

SEAcoop, via Lima 4 10137 Torino (Italy)

Forestry consultant

Dates

Occupation or position held

Main activities and

responsibilities

Name and address of employer Type of business or sector October 2000 - July 2003

Fixed term employee (600 working hours)

Coordination of tourist activities and voluntary summer jobs in the Park

Gran Paradiso National Park. Via della Rocca, 47. Torino (Italy)

National Parks, Recreation management, Tourism and Environmental education

Research experience

Dates

Occupation or position held Main activities and responsibilities January 1st, 2008 - March 30th, 2016

Postdoctoral grants

Planning, coordination and development of national and international research projects (Interreg III, Alcotra, FP7 EU). Summarizing of bibliographic state-of-the-art, identifying knowledge gaps, planning data collection, field sampling campaign, data multivariate analysis, use of spatial information (GIS) and integration with historical documents, modeling of forest and landscape dynamics and programming of simulator software, dissemination of results to the scientific and professional communities, national and international conferences, technical manuals, accounting and reporting.

Name and address of employer Type of business or sector

DISAFA - Università degli Studi di Torino. Via da Vinci 44, Grugliasco (TO) (Italy) Scientific research, forest ecology and management

Dates

Occupation or position held Main activities and responsibilities Hosting institution

September 13-26, 2009

Short Term Scientific Mission - EU COST Project FP0603 "Forest modeling"

Calibration of forest growth models for alpine species. Acquisition of techniques and tools for computer modeling.

Institut für Silviculture, Universität für Bodenkultur, Peter Jordan Strasse 82, Wien (Austria)

Dates

Occupation or position held Main activities and responsibilities Hosting institution

April 11th, 2007 - June 9th, 2007

Visiting researcher

P.I.: "Spatio-temporal pattern of decline in Scots pine vitality show response to endogenous and exogenous stress factors".

Swiss Federal Institute for Forest, Snow and Landscape research. Zürcherstrasse 111, 8903 Birmensdorf ZH (Switzerland)

Dates Occupation or position held

Main activities and responsibilities

September 15th, 2005 - March 15, 2006

Fulbright grant: Visiting Graduate Student

Reaearch assistant (tutor: prof. J.N. Long), statistical analyses and large database management, use and programming of forest dynamics simulator models, presentation of results to state and federal employees, graduate school and classes, meetings with other international grantees.

Hosting institution

Dept. of Forest, Range and Wildlife Sciences, Utah State University. 5230 Old Main Hill -84322 Logan UT (USA)

Occupation or position held Main activities and responsibilities

July 24th, 2003 - November 1th, 2007

Research annex / Graduate student grants

Scientific collaboration and coordination of research projects at national and European level (EU-Interreg). Establishing permanent monitoring plots, field sampling of climate, site and dendroecological variables, statistical data analysis, database creation and management, collecting and managing spatially explicit data (GPS, GIS), metadata handling and reporting, financial accounting, dissemination of results to the scientific community and to the general public (academic publications, training courses, technical manuals).

Name and address of employer Type of business or sector Agroselviter - Università degli Studi di Torino. Via da Vinci 44, Grugliasco (TO) (Italy) Scientific research, forest ecology and management