

University Academic Curriculum Vitae

Personal information

Name Maurizio Ventura

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Education since leaving school

- year and title of first degree; which university

2000 - Master of Science in Biology. Faculty of Sciences, University of Bologna

- year and title of post-graduate degrees (and university)

2004 - PhD in Plant Pathology. Faculty of Agricultural sciences, University of Bologna

Present appointment

- Title of appointment: **Researcher (RTD A)**
- start of appointment: 15/10/2018
- employer: Libera Università di Bolzano/Bozen, Faculty di Science e Technology, piazza Università 1, 39100 Bolzano/Bozen
- brief description of responsibilities: scientific research and teaching (6 CFU) within bachelor and master courses

Experience in academic teaching

title of courses given last 5 years, name of University/Institute, subject area, academic level (under-/post-graduate / PhD), results of evaluations (full details in appendix)

Academic years 2017/18 – 2018/19:

- **Silviculture and grassland management** - Bachelor in Agricultural and Agro-Environmental Sciences, Libera Università di Bolzano (with prof. Giustino Tonon and Dr. Giovanni Prtathoner). Academic years 2017/18 and 2018/19
- **Forest planning and protection forestry - Forest inventories** - Master in Environmental Management of Mountain Areas, Libera Università di Bolzano. Academic years 2017/18 and 2018/19

Academic years 2015/16 – 2016/17:

- **Ecosystems and plant Ecophysiology** – Master in International Horticulture Science, Free University of Bolzano (with prof. Massimo Tagliavini).
- **Ecologia agraria e principi di agronomia** - Bachelor in Agricultural and Agro-Environmental Sciences, Free University of Bolzano (with prof. Massimo Tagliavini).
- **Ecology of forest ecosystems** - Bachelor in Agricultural and Agro-Environmental Sciences, Free University of Bolzano.

- Summary of significant personal achievements in teaching

During my past teaching activity, I have increased my skills about teaching to graduate and undergraduate students of the free University of Bolzano. Results of the course evaluation showed a good level of satisfaction among the students (88% of positive answers to the question about lectureship).

Other academic responsibilities

- Member of the **final exam commission** for the **PhD** exam of candidate Sara Casagrande Bacchiocchi, Thesis title: "the impact of ski piste management on mountain grassland ecosystems in the southern alps".
- **Member of the committee for the PhD school in Mountain Environment and Agriculture**, Libera Università di Bolzano.
- **Supervisor** for the **PhD** students Anna Bortolazzi and Luca DaRos (PhD in Mountain Environment and Agriculture).
- Participation to the **organization committee** of the National Conference on Fruit Tree Nutrition (6-7 September 2005, Bologna, Italy) and the IX National Congress of Italian Society of Forest Science and Ecology (Bolzano, Italy, 16-19 September 2013).
- **Supervisor** for the thesis preparation of the following students: *Gregor Trafoier* (Bachelor in Agricultural, Food and Mountain Environmental Sciences, Free University of Bolzano/Bozen, Italy).
- **Cosupervisor** for the thesis preparation of the following students: *Damiano Zanotelli, Carlo Marconcini, Daniele Palermo, Giacomo Fava, Giulia Albertazzi, Marcello Papotti, Marco Tinti* (Bachelor degree in Land and agro-forestry Sciences; Master degree in Planning and management of agro-territorial forest and landscape, University of Bologna, Italy), *Martin Oberleiter, Martin Peer*, (Bachelor in Agricultural, Food and Mountain Environmental Sciences, Free University of Bolzano/Bozen, Italy), *Camilla Bateni, Martino Gambacorti Passerini* (Master in Environmental Management of Mountain Areas, Free University of Bolzano/Bozen, Italy).

Memberships

Member of European Geoscience Union (EGU)

Member of the Italian society of forest science and forest ecology (Società Italiana di Selvicoltura ed Ecologia Forestale - SISEF)

Member of the Italian Society for Climate Science (Società Italiana per le Scienze del Clima - SISC).

Research and scholarships

- Summary of current research and scholarship

In the last years, my research activity has focused on biogeochemistry of carbon and nitrogen cycles, soil greenhouse gas emissions, and decomposition dynamic of biomass and soil organic matter in forest and agricultural ecosystems.

- Summary of research and scholarship during the previous five years

- Date 15/10/2015 – 14/10/2018
- institution Libera Università di Bolzano/Bozen, Faculty di Science e Technology, piazza Università 1, 39100 Bolzano/Bozen.
- position Researcher (RTD A)
- description Scientific research in the field of ecology of forest ecosystem. Teaching (6 CFU) within bachelor and master courses

- Date 15/03/2015 – 15/09/2015

- institution Libera Università di Bolzano/Bozen, Faculty di Science e Technology, piazza Università 1, 39100 Bolzano/Bozen.
- position Research assistant
- description Research activity within the research project PRIN: Effects of climate change on forest productivity and radiative forcing of Italian forests.

- Date 1/2/2014 – 31/1/2015
- institution Free University of Bolzano, Faculty of Science e technology, piazza Università 1, 39100 Bolzano/Bozen.
- position Post-doctoral position
- Project Effect of nitrogen deposition on C accumulation potential of forests ecosystems – NitroFor

- Summary of significant achievements in research and scholarship

The study of biochar decomposition has led to the first estimation of biochar mean residence time from a long term field study, confirming the potential of soil the biochar application to **increase soil C stock** and mitigate climate change. Furthermore, trials performed in fruit tree ecosystems and in pot trials have showed that biochar application can **decrease the nitrate losses** from soil, increase **nutrient use efficiency** and affect soil microbial community.

Studies conducted on the C balance and stock in short rotation forestry and fruit tree ecosystems contributed to assess the role of these ecosystems in C sequestration and C storage, in order to verify their contribution to climate change mitigation.

Studies on organic matter decomposition have examined the **dynamic of nutrient losses** from decaying leaf litter and mowed grass residues in orchards and vineyards. These studies have led to the quantification of the amounts of nutrients that can derive from crop residues, decreasing the external inputs of N and other mineral elements.

Studies performed in collaboration with the technical University of Munich on forest plantations have helped to identify the effect of competition on tree growth and biomass production using an innovative experimental design, allowing to reproduce the effect of different plantation density on a relatively small area.

Results of this my past research activity have been published on international scientific journals and presented at national and international conferences.

Bibliometric values (from Scopus database) in relation to the thresholds for national scientific habilitation for associate professor:

<i>Parameter</i>	<i>Value</i>	<i>Threshold values for the National scientific habilitation (associate professor)</i>
<i>Number of papers in last 5 years</i>	<i>17</i>	<i>8</i>
<i>Number of citations in last 10 years</i>	<i>429</i>	<i>155</i>
<i>H index in last 10 years</i>	<i>12</i>	<i>7</i>

- Research grants and contracts

Research grants:

Date granted	Award Holder(s)	Funding Body	Title	Amount received
Start 01/10/2019 End 30/09/2021	Maurizio Ventura	Free University of Bolzano CRC call 2019	INSIDE - Effetto dell'aumento delle deposizioni azotate sulla comunità microbica del suolo mediante tecniche basate sull'analisi di DNA ed RNA in ecosistemi forestali montani	66,667
Start 01/10/2016 End 30/09/2017	Maurizio Ventura	Free University of Bolzano RTD call 2016	Effetto delle deposizioni azotate sul ciclo dell'azoto e sull'attività biologica del suolo in foreste montane (CycliNFor).	19,600

Research contracts:

From / to	Job title	Name of academic Institution	responsibilities
15/03/2015 – 15/09/2015	Assegno di ricerca	Libera Università di Bolzano	Research activity within the research project PRIN: Effects of climate change on forest productivity and radiative forcing of Italian forests
1/2/2014 – 31/1/2015	Assegno di ricerca	Libera Università di Bolzano	Research activity within the research project "Effect of nitrogen deposition on C accumulation potential of forests ecosystems – NitroFor"
1/12/2011 – 31/12/2013	Assegno di ricerca	Libera Università di Bolzano	Research activity within the research project "Biochar for carbon sequestration and large-scale removal of greenhouse gases (GHG) from the atmosphere – EUROCHAR"
1/6/2011 – 31/10/2011	Incarico di prestazione d'opera per attività di ricerca	Libera Università di Bolzano	Research activity within the project "Biochar for carbon sequestration and large-scale removal of greenhouse gases (GHG) from the atmosphere – EUROCHAR"
1/4/2011 – 31/5/2011	Visiting Scientist	Shell Global, Thornton Research Centre, Chester, UK.	Research activity within the project FP7-PEOPLE-2009-IAPP LOWCAFF - Low Carbon Future Fuels (n. 251492)
1/7/2008 – 31/12/2010	Assegno di Ricerca	Alma Mater Studiorum Università di Bologna	Research activity within the project "FILIERE AGROENERGETICHE: gestione sostenibile di specie da biomassa"
1/1/2008 – 31/6/2008	Borsa di studio	Alma Mater Studiorum Università di Bologna	Research activity within the project "Valutazione di modelli previsionali per la stima dell'azoto minerale nel suolo" (VAMOS)
1/1/2007 – 31/12/2007	Borsa di studio	Alma Mater Studiorum	Research activity within the project "Bilancio dell'azoto e monitoraggio"

		Università di Bologna	delle perdite di nitrati da un bacino agricolo di pianura.”
1/5/2005 – 31/12/2005	Borsa di studio	Alma Mater Studiorum Università di Bologna	Research activity within the project “Monitoraggio delle perdite di nitrati da ecosistemi arborei da frutto nella Provincia di Ferrara”
1/7/2004 – 31/12/2004	borsa di studio	Alma Mater Studiorum Università di Bologna	Research activity within the project “bilancio dell’azoto e monitoraggio delle perdite di nitrati da un bacino agricolo di pianura”

Publications

Publications over the last 15 years in chronological order within each category following the International Standard for bibliographic references with DOI whenever possible. With multiple authorship, if one is the main author, that author's name appears in *Italics*. In addition, in the left-hand margin please star (*) what you consider were especially significant publications. Where relevant, citation index and impact of journal. For accepted but not yet published works exact details of expected publication date. PUBLICATIONS WILL ONLY BE EVALUATED WHEN THEY CAN BE INDEPENDENTLY TRACED IN PUBLIC CATALOGUES AS PUBLICATIONS.

- Chapters in books:
 1. *G. Tonon*, S. Dezi, M. Ventura, F. Scandellari (2011). The Effect of Forest Management on Soil Organic Carbon. in: Sustaining Soil Productivity in Response to Global Climate Change: Science, Policy, and Ethics (eds T.J. Sauer, J.M. Norman and M.V.K. Sivakumar), Wiley-Blackwell, Oxford, UK. doi:10.1002/9780470960257.ch16. ISBN: 047095857X; 9780470958575
 2. *M. Ventura*, C. Ceccon, M. Tagliavini (2007). Agricoltura Conservativa in frutticoltura. In “L’Agricoltura Blu”, La Via Italiana dell’Agricoltura Conservativa; Principi, Tecnologie e Metodi per una Produzione Sostenibile”. A cura di Pisante M., Editrice IISole24Ore, 257 pag.
- Journal Papers in refereed academic journals (with DOI whenever possible)
 3. *Criscuoli I.*, Ventura M., Sperotto A., Panzacchi P., Tonon G. **Effect of Woodchips Biochar on Sensitivity to Temperature of Soil Greenhouse Gases Emissions** (2019) Forests 10(7):594. Published online. DOI: 10.3390/f10070594
 4. *Bateni, C.*, Ventura, M., Tonon, G., Pisanelli, A. **Soil carbon stock in olive groves agroforestry systems under different management and soil characteristics** (2019) Agroforestry Systems. Article in Press. DOI: 10.1007/s10457-019-00367-7
 5. **Ventura, M.*, Panzacchi, P., Muzzi, E., Magnani, F., Tonon, G. **Carbon balance and soil carbon input in a poplar short rotation coppice plantation as affected by nitrogen and wood ash application** (2019) New Forests. DOI: 10.1007/s11056-019-09709-w
 6. **Ventura, M.*, Alberti, G., Panzacchi, P., Vedove, G.D., Miglietta, F., Tonon, G. **Biochar mineralization and priming effect in a poplar short rotation coppice from a 3-year field experiment** (2019) Biology and Fertility of Soils, 55 (1), pp. 67-78. DOI: 10.1007/s00374-018-1329-y
 7. *Bani A*, Pioli S, Ventura M, Panzacchi P, Borruso L, Tognetti R, Tonon G, Brusetti L. **The role of microbial community in the decomposition of leaf litter**

and deadwood (2018) Applied Soil Ecology. Article in Press. doi: 10.1016/j.apsoil.2018.02.017

8. *Dahlhausen, J., Uhl, E., Heym, M., Biber, P., Ventura, M., Panzacchi, P., Tonon, G., Horváth, T., Pretzsch, H.* **Stand density sensitive biomass functions for young oak trees at four different European sites** (2017) *Trees - Structure and Function*, 31 (6), pp. 1811-1826. DOI: 10.1007/s00468-017-1586-7
9. *Dondini, M., Alberti, G., Delle Vedove, G., Ventura, M., Tonon, G., Viger, M., Harris, Z.M., Jenkins, J.R., Richards, M., Pogson, M., Taylor, G., Smith, J.U., Smith, P.* **Evaluation of the ECOSSE model to predict heterotrophic soil respiration by direct measurements** (2017) *European Journal of Soil Science*, 68 (3), pp. 384-393. DOI: 10.1111/ejss.12416
10. *Tammeorg, P., Bastos, A.C., Jeffery, S., Rees, F., Kern, J., Graber, E.R., Ventura, M., Kibblewhite, M., Amaro, A., Budai, A., Cordovil, C.M.D.S., Domene, X., Gardi, C., Gascó, G., Horák, J., Kammann, C., Kondrlova, E., Laird, D., Loureiro, S., Martins, M.A.S., Panzacchi, P., Prasad, M., Prodana, M., Puga, A.P., Ruyschaert, G., Sas-Paszt, L., Silva, F.C., Teixeira, W.G., Tonon, G., Delle Vedove, G., Zavalloni, C., Glaser, B., Verheijen, F.G.A.* **Biochars in soils: towards the required level of scientific understanding** (2017) *Journal of Environmental Engineering and Landscape Management*, 25 (2), pp. 192-207. DOI: 10.3846/16486897.2016.1239582
11. *George, E., Ventura, M., Panzacchi, P., Scandellari, F., Tonon, G.* **Can hydrochar and pyrochar affect nitrogen uptake and biomass allocation in poplars?** (2017) *Journal of Plant Nutrition and Soil Science*, 180 (2), pp. 178-186. DOI: 10.1002/jpln.201600563
12. **Jenkins, J.R., Viger, M., Arnold, E.C., Harris, Z.M., Ventura, M., Miglietta, F., Girardin, C., Edwards, R.J., Rumpel, C., Fornasier, F., Zavalloni, C., Tonon, G., Alberti, G., Taylor, G.* **Biochar alters the soil microbiome and soil function: results of next-generation amplicon sequencing across Europe** (2017) *GCB Bioenergy*, 9 (3), pp. 591-612. DOI: 10.1111/gcbb.12371
13. *Giammarchi, F., Vacchiano, G., Bertagnolli, A., Ventura, M., Panzacchi, P., Cherubini, P., Tonon, G.* **Effects of the lack of forest management on spatiotemporal dynamics of a subalpine *Pinus cembra* forest** (2017) *Scandinavian Journal of Forest Research*, 32 (2), pp. 142-153. DOI: 10.1080/02827581.2016.1207802
14. *Sorrenti, G., Ventura, M., Toselli, M.* **Effect of biochar on nutrient retention and nectarine tree performance: A three-year field trial** (2016) *Journal of Plant Nutrition and Soil Science*, 179 (3), pp. 336-346. DOI: 10.1002/jpln.201500497
15. *Tomè, E., Ventura, M., Folegot, S., Zanotelli, D., Montagnani, L., Mimmo, T., Tonon, G., Tagliavini, M., Scandellari, F.* **Mycorrhizal contribution to soil respiration in an apple orchard** (2016) *Applied Soil Ecology*, 101, pp. 165-173. DOI: 10.1016/j.apsoil.2016.01.016
16. *Uhl E, Biber P, Ulbricht M, et al* (2015) **Analysing the effect of stand density and site conditions on structure and growth of oak species using Nelder**

trials along an environmental gradient: experimental design, evaluation methods, and results. *Forest Ecosystems* 2:17. doi: 10.1186/s40663-015-0041-8

17. *Ventura, M., Alberti, G., Viger, M., Jenkins, J.R., Girardin, C., Baronti, S., Zaldei, A., Taylor, G., Rumpel, C., Miglietta, F., Tonon, G. **Biochar mineralization and priming effect on SOM decomposition in two European short rotation coppices** (2015) *GCB Bioenergy*, 7 (5), pp. 1150-1160. DOI: 10.1111/gcbb.12219
18. *Ventura, M., Zhang, C., Baldi, E., Fornasier, F., Sorrenti, G., Panzacchi, P., Tonon, G. **Effect of biochar addition on soil respiration partitioning and root dynamics in an apple orchard** (2014) *European Journal of Soil Science*, 65 (1), pp. 186-195. DOI: 10.1111/ejss.12095
19. *Ventura, M., Sorrenti, G., Panzacchi, P., George, E., Tonon, G. **Biochar reduces short-term nitrate leaching from a horizon in an apple orchard** (2013) *Journal of Environmental Quality*, 42 (1), pp. 76-82. DOI: 10.2134/jeq2012.0250
20. Panzacchi, P., Tonon, G., Ceccon, C., Scandellari, F., Ventura, M., Zibordi, M., Tagliavini, M. **Belowground carbon allocation and net primary and ecosystem productivities in apple trees (*Malus domestica*) as affected by soil water availability** (2012) *Plant and Soil*, 360 (1-2), pp. 229-241. DOI: 10.1007/s11104-012-1235-2
21. Pieri, L., Ventura, F., Ventura, M., Tagliavini, M., Ponti, M., Pistocchi, R., Albertazzi, S., Vignudelli, M., Pisa, P.R. **Chemical and biological indicators of water quality in three agricultural watersheds of the Po valley, Italy** (2011) *Italian Journal of Agronomy*, 6 (4), pp. 29-38. DOI: 10.4081/ija.2011.e36
22. *Brunetto, G., Ventura, M., Scandellari, F., Ceretta, C.A., Kaminski, J., de Melo, G.W., Tagliavini, M. **Nutrient release during the decomposition of mowed perennial ryegrass and white clover and its contribution to nitrogen nutrition of grapevine** (2011) *Nutrient Cycling in Agroecosystems*, 90 (3), pp. 299-308. DOI: 10.1007/s10705-011-9430-8
23. *Ceccon, C., Panzacchi, P., Scandellari, F., Prandi, L., Ventura, M., Russo, B., Millard, P., Tagliavini, M. **Spatial and temporal effects of soil temperature and moisture and the relation to fine root density on root and soil respiration in a mature apple orchard** (2011) *Plant and Soil*, 342 (1-2), pp. 195-206. DOI: 10.1007/s11104-010-0684-8
24. La Malfa, S., Tribulato, E., Gentile, A., Gioacchini, P., Ventura, M., Tagliavini, M. **¹⁵N natural abundance technique does not reveal the presence of nitrogen from biological fixation in field grown carob (*Ceratonia siliqua* L.) trees** (2010) *Acta Horticulturae*, 868, pp. 191-195.
25. Scandellari, F., Ventura, M., Malaguti, D., Ceccon, C., Menarbin, G., Tagliavini, M. **Net primary productivity and partitioning of absorbed nutrients in field-grown apple trees** (2010) *Acta Horticulturae*, 868, pp. 115-122.

26. *Ventura, M., Scandellari, F., Bonora, E., Tagliavini, M. **Nutrient release during decomposition of leaf litter in a peach (*Prunus persica* L.) orchard** (2010) *Nutrient Cycling in Agroecosystems*, 87 (1), pp. 115-125. DOI: 10.1007/s10705-009-9317-0
27. *Scandellari, F., Ventura, M., Gioacchini, P., Vittori Antisari, L., Tagliavini, M. **Seasonal pattern of net nitrogen rhizodeposition from peach (*Prunus persica* (L.) Batsch) trees in soils with different textures** (2010) *Agriculture, Ecosystems and Environment*, 136 (1-2), pp. 162-168. DOI: 10.1016/j.agee.2009.12.017
28. *Ventura, M., Scandellari, F., Ventura, F., Guzzon, B., Rossi Pisa, P., Tagliavini, M. **Nitrogen balance and losses through drainage waters in an agricultural watershed of the Po Valley (Italy)** (2008) *European Journal of Agronomy*, 29 (2-3), pp. 108-115. DOI: 10.1016/j.eja.2008.05.002
29. Ventura, M., Pieri, L., Vignudelli, M., Ventura, F., Rossi Pisa, P., Tagliavini, M. **Nitrogen balance and land use in three different watersheds of the po valley (Italy)** (2008) *Italian Journal of Agronomy*, 3 (3), pp. 131-132.
30. Sabatini, M.A., Ventura, M., Innocenti, G. **Do Collembola affect the competitive relationships among soil-borne plant pathogenic fungi?** (2004) *Pedobiologia*, 48 (5-6), pp. 603-608. DOI: 10.1016/j.pedobi.2004.07.003

- Journal papers in professional journals

31. Sorrenti G., Ventura M., Tonon G., Toselli M. **Biochar, strategia per la Gestione sostenibile degli ecosistemi frutticoli?** (2003) *Frutticoltura* n° 11, 2013.
32. Ventura M., Opstad N., Zanotelli D., Scandellari F., Quartieri M., Tagliavini M. **Monitoraggio delle perdite di azoto minerale per lisciviazione dal suolo di un pereto** (2005) *Frutticoltura* n° 10, 2005.

- Other publications

33. M. Montanari, M. Ventura, G. Innocenti (2004) **Exploitation of spent mushroom compost in biological control against melon *Fusarium* wilt disease**. *IOBC/WPRS Bulletin*; 27(8): 247-250.
34. M. Montanari, M. Ventura, G. Innocenti, M.A. Sabatini (2004). **Compost as substrate for *Trichoderma***. *IOBC/WPRS Bulletin*. 27(8): 187-190
35. M. Ventura, M. Montanari, G. Innocenti (2004). **Effetto repressivo del compost nei confronti di *Fusarium oxysporum* f.s. melonis**. *Micologia Italiana* anno XXXIII, n. 1, aprile 2004

Further data

Presentations at scientific conferences over past 3 years (invited or selected, keynote, nature and status of conference)

1. Bortolazzi A., Gambacorti-Passerini M., Ventura M., Fornasier F., Panzacchi P., Giammarchi F., Tonon G. Effect of increased nitrogen deposition on soil N cycle

and microbial biomass and activity in a sessile oak forest. In: EGU General Assembly 2019. GEOPHYSICAL RESEARCH ABSTRACTS, vol. 21, Copernicus, ISSN: 1607-7962, Vienna, 7.4.2019 - 12.4.2019

2. *Ventura M., Trafoier G., Bortolazzi A., Panzacchi P., Giammarchi F., Tonon G.* Canopy interception of nitrogen deposition in mountain forests: results from an above-canopy fertilization with labelled N. In: EGU General Assembly 2019. GEOPHYSICAL RESEARCH ABSTRACTS, vol. 21, Copernicus, ISSN: 1607-7962, Vienna, 7.4.2019 - 12.4.2019
3. *Gambacorti-Passerini M., Ventura M., Fornasier F., Panzacchi P., Giammarchi F., Tonon G.* Effetto dell'aumento delle deposizioni azotate sul ciclo dell'N e sulla biomassa e attività microbica nel suolo. IV Congresso Nazionale di Selvicoltura. 5-9 novembre 2018, Torino
4. *Trafoier G., Bortolazzi A., Ventura M., Panzacchi P., Giammarchi F., Tonon G.* Studio del ruolo delle chiome sulle deposizioni azotate nelle foreste montane tramite fertilizzazione sopra-chioma con 15N. IV Congresso Nazionale di Selvicoltura. 5-9 novembre 2018, Torino
5. *Bateni C., Ventura M., Tonon G., Pisanelli A.* Soil carbon stock in olive groves under different management and soil characteristics. XI Congresso Nazionale SISEF - la foresta che cambia. Ricerca, qualità della vita e opportunità in un paese in transizione. 10-13 Ottobre 2017, Roma. Oral presentation
6. *Panzacchi P., Ventura M., Bani A., Borruso L., Giammarchi F., Brusetti L., Tonon G.* Effect of nitrogen deposition on C-sink potential of deciduous forest ecosystems: a permanent field-scale manipulation experiment in South Tyrol (Italy). IUFRO 125th Anniversary Congress 2017 18/09/ - 22/09/2017 Konzerthaus Freiburg (Germany)
7. *Ventura M., Tonon G.* The biochar option: a carbon negative technology for climate change mitigation. IV annual conference of the Italian Society for Climate Sciences, 19-20 October 2016, Cagliari, Italy. Oral presentation (**invited speaker**).
8. *Ventura M., Alberti G., Panzacchi P., Delle Vedove G., Miglietta F., Tonon G.* Biochar mineralization and priming effect on SOM decomposition. Results from a field trial in a short rotation coppice in Italy. EGU General Assembly 2016, 17-22/04/2016, Vienna, Austria. PICO presentation.
9. *Bani A., Borruso L., Panzacchi P., Ventura M., Tonon G. and Brusetti L.* Effect of aerial fertilization on microbial communities inhabiting oaks phyllosphere. American Microbiology Society – ASM Microbe Conference, June 16-20, 2016, BOSTON, MA. Poster presentation.

Reviewer for several academic journals: Agricultural and Forest Meteorology, Applied soil Ecology, Biogeosciences (1), Environmental System Research (1), Global Change Biology Bioenergy (1), iForest (11), Journal of Environmental Quality (1), Pedosphere (1), Plant and Soil (2), Plos One (1), Soil Science Society of America Journal (1), Soil Biology and Biochemistry (3), Science of the Total Environment (1), Agricultural and Forest Meteorology (2).

Candidates should outline reflexively their expected contribution to the advertised position at the FUB and to the university overall. This statement should highlight relevant elements of the candidate's CV that underline the particular suitability of the applicant.

Statement of interest

In the last years, my research activity has focused on C and N cycles in fruit tree and forest ecosystems. In particular, studies on N cycle have focused on N balances and losses, and

on the dynamic of nutrient losses from decaying leaf litter and mowed grass residues in orchards and vineyards. These studies led to the quantification of N losses from these ecosystems and the identification of the factors affecting them, other than the estimation of the nutrient amounts returning to soil and plants from the degradation of crop residues, decreasing the external inputs of nutrients. Furthermore, trials performed in laboratory, field conditions or in controlled environments have studied the effect of pyrolyzed organic matter (biochar) on nutrient losses from soil and N use efficiency in plants. Results of these studies have been published on international scientific journals and presented at national and international conferences.

I have been involved in different national and international research projects. I have been responsible for the CyclINFOR project, funded by LUB, and involved as WP leader in the EFRE/FESR project WOOD-UP, showing the ability to work independently as well as part of a research team and to manage research funds. Results of my research activity have been published on international scientific journals and presented at national and international conferences. Furthermore, I have performed my teaching activity have included the courses of *Ecosystems and plant Ecophysiology* and *Ecologia agraria e principi di agronomia*.

The experience and skills acquired during my research activity on biogeochemistry of nutrients, N in particular, and its dynamic between soil and plant will ensure a good outcome of my future research at LUB, making me a good candidate for this position. Furthermore, the experience acquired during my past teaching activity will ensure the continuation of a good quality of teaching at the University of Bolzano.

Italian: mother tongue

English: Certificate IELTS academic, level C1

German: Goethe-Zertifikat B1

**Language
competence**

Date

Signature

Autorizzo il trattamento dei miei dati personali presenti nel curriculum vitae ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 e del GDPR (Regolamento UE 2016/679)