

## Personal contact information:

Prof. Dr. PhD (Msc.) Giorgio Alberti  
Department of Agricultural, Food, Environmental and Animal Sciences  
University of Udine  
Via delle Scienze 206  
33100 Udine, Italy  
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Born in Trieste (Italy), 24/05/1978

## Educational background:

2006 PhD in Ecology, University of Udine, Italy  
2002 MSc. in Forestry, University of Firenze, Italy (110/110 summa cum laude)  
1997 High School Diploma, Liceo Scientifico G. Oberdan, Trieste, Italy (60/60)

## Additional education

2006 Summer school in “Eddy covariance flux measurements”, Grembloux, Faculté Universitaire des Sciences Agronomiques and Carboeurope, 10-21/07/2006  
2002 “Silviculture in Mountain Forests”, Italian Forest Ecology Society (SISEF) and Regione Friuli Venezia-Giulia  
2001 2nd IP Socrates Course “Mountain Forest for Production and Protection”, Universität für Bodenkultur (BOKU), Wien, Austria

## Awards

2018 Short-listed for a position as professor in Forest Resources and Agroforest Systems, Technical University of Munich, Germany  
2015 Research scholarship by German Academic Exchange Service (DAAD, Germany) for a 3-months research period at University of Freiburg, Germany (28/01/2016 – 30/04/2016)  
2008 Prize for the best oral presentation on the “Influence of crop rotation and tillage on GHGs fluxes in an intensive managed cropland in North Italy” (Alberti G., Delle Vedove G., Carfora A., Castaldi S., Zuliani M., Peressotti A.), NitroEurope Open Science Conference. Ghent, Belgium, February 20-21/02/2008  
2002 Best student in the Academic Year 2001-2002 at the Faculty of Agricultural Sciences, University of Firenze, Italy

## Habilitations:

2017 Habilitation as Full Professor in “Silviculture and Forest Management”, Italian Ministry of Research and Education (MIUR), Rome, Italy  
2013 Habilitation as Associate Professor in “Silviculture and Forest Management”, Italian Ministry of Research and Education (MIUR), Rome, Italy

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## Work experience

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|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| From 10/2023      | Full professor in Silviculture and Forest Management, Department of Agricultural, Food, Environmental and Animal Sciences, University of Udine, Italy (100% of working time)                         |
| 10/2021 - 09/2023 | Associate professor in Silviculture and Forest Management, Faculty of Science and Technology, Free University of Bolzano, South Tyrol (30% of working time, art. 6 L. 240/2010)                      |
| 10/2021 - 09/2023 | Associate professor in Silviculture and Forest Management, Department of Agricultural, Food, Environmental and Animal Sciences, University of Udine, Italy (70% of working time, art. 6 L. 240/2010) |
| 04/2015 - 09/2021 | Associate professor in Silviculture and Forest Management, Department of Agricultural, Food, Environmental and Animal Sciences, University of Udine, Italy                                           |
| 02/2020 - 01/2022 | Adjunct researcher, Institute of Bioeconomy, National Research Center of Italy, Firenze, Italy                                                                                                       |
| 06/2011 - 03/2019 | Adjunct researcher, Institute of Biometeorology, National Research Center of Italy, Firenze, Italy                                                                                                   |
| 09/2009 - 03/2015 | Researcher in Silviculture and Forest Management, Faculty of Agriculture, University of Udine, Italy                                                                                                 |
| 12/2005 - 08/2009 | Post-doc, Department of Agricultural and Environmental Sciences, University of Udine, Italy                                                                                                          |

## Research activities abroad

|                   |                                                                        |
|-------------------|------------------------------------------------------------------------|
| 06/2019 - 09/2019 | Visiting scientist, Forschungszentrum Jülich, Germany                  |
| 02/2016 - 04/2016 | Visiting scientist, University of Freiburg, Germany (DAAD scholarship) |
| 03/2013 - 12/2021 | Visiting scientist, University of Southampton, UK                      |
| 04/2005 - 10/2005 | Visiting student, College of Forestry, Oregon State University, USA    |

## External Consultant:

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|------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2006 | San Diego State University (Prof. W. Oechel): soil respiration systems for continuous field measurements (March 2006)                                    |
| 2003 | Collaboration to the mid-term evaluation of the Rural Development Programme of Friuli Venezia Giulia (Italy) for the European Union (June-November 2003) |

## Foreign languages:

| Language | Comprehension | Speaking | Written production |
|----------|---------------|----------|--------------------|
| English  | C1            | C1       | C1                 |
| German   | A2            | A2       | A1                 |

## Teaching activities:

Since 2009, I have been teaching courses for undergraduate students and I have been supervisor of 53 bachelor and master thesis related to forest ecosystems, climate change, soil carbon and nitrogen, GHG fluxes, ecosystem services, forest management and tree physiology.

From 2010 to 2013, I was member of the International PhD programme “*Novel Physics Methodologies for Ecological Research*”, financed by the Italian Ministry of University and Research in collaboration with the University of Bochum (Germany), the University of York (UK), the University of Udine (Italy) and the International Center for Theoretic Physics, Trieste (Italy).

Then, I was member of the PhD programme in “*Agro-environmental sciences*”. University of Udine, Italy (2011-2013).

Since 2013, I have been member of the PhD programme in “*Environmental life sciences*” at University of Trieste and coordinator of this programme from 2016 to 2023.

In 2015, I was appointed delegate of the Rector for International Mobility and, since 2019, pro-vice Chancellor for International Relations at University of Udine. Thus, I have been able to understand and study the complex rules and administrative processes behind developing and delivering teaching programs and to sustain students and staff international mobility, especially in a period of limited resources.

## Detailed list:

### *Undergraduate student program*

- 2010 – now “Silviculture and Forest Mensuration” (in Italian, 12 ECTS), University of Udine, Italy. Around 60 undergraduate students per year (5<sup>th</sup> semester).
- 2021 – 2023 “Forestry” (in English, 6 ECTS), Free University of Bolzano, Bolzano, Italy. Around 10 undergraduate students per year (6<sup>th</sup> semester).
- 2008 – 2009 Undergraduate course: “Principles of Silviculture” (in Italian, 6 ECTS), University of Udine, Italy. Around 40 undergraduate students per year (3<sup>rd</sup> semester).

### *Graduate student program:*

- 2019 – now “Laboratory of Environmental Sensors” (in Italian, 6 ECTS), University of Udine, Italy. Around 10 graduate students per year (3<sup>th</sup> semester).
- 2013 – now Member of the PhD course “Environmental life sciences”. University of Trieste, Italy.
- 2016 – 2023 Coordinator of the PhD course “Environmental life sciences”. University of Trieste, Italy.
- 2021 – 2023 “Protection forestry” (in English, 3 ECTS), Free University of Bolzano, Bolzano, Italy. Around 30 graduate students per year (2<sup>th</sup> semester).
- 2011 – 2013 Member of the PhD course “Agro-environmental sciences”. University of Udine, Italy.
- 2010 – 2013 Member of the International PhD course in “Novel Physics Methodologies for Ecological Research”. Financed by the Italian Ministry of University and Research (MIUR), in collaboration with the University of Bochum (Germany), the University of York (UK), the University of Udine (Italy) and the International Center for Theoretic Physics, Trieste (Italy).

## Main seminars

- 2008 “Forest and trees: their role in the landscape”, European postgraduate Master in Urbanism (2nd level Master’s degree Course; Consortium of Technische Universiteit, Delft (Tu-Delft); Universidad Politecnica de Catalunya, Barcelona (UPC); Katholieke Universiteit Leuven, (KUL), Università IUAV di Venezia, 20/10/2008
- 2008 “Trees and landscape: applications”, European postgraduate Master in Urbanism (2nd level Master’s degree Course; Consortium of Technische Universiteit, Delft (Tu-Delft); Universidad

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Politecnica de Catalunya, Barcelona (UPC); Katholieke Universiteit Leuven, (KUL), Università IUAV di Venezia, 22/10/2008

- 2008 “Urban forestry”, European postgraduate Master in Urbanism (2nd level Master’s degree Course; Consortium of Technische Universiteit, Deft (Tu-Deft); Universidad Politecnica de Catalunya, Barcelona (UPC); Katholieke Universiteit Leuven, (KUL), Università IUAV di Venezia, 19/11/2008
- 2009 “Forest and trees: their role in the landscape”, European postgraduate Master in Urbanism (2nd level Master’s degree Course; Consortium of Technische Universiteit, Deft (Tu-Deft); Universidad Politecnica de Catalunya, Barcelona (UPC); Katholieke Universiteit Leuven, (KUL), Università IUAV di Venezia, 08/10/2009
- 2009 “Climate change, forestry and urban forests”, European postgraduate Master in Urbanism (2nd level Master’s degree Course; Consortium of Technische Universiteit, Deft (Tu-Deft); Universidad Politecnica de Catalunya, Barcelona (UPC); Katholieke Universiteit Leuven, (KUL), Università IUAV di Venezia, 14/10/2009
- 2010 “Terrestrial carbon balance: climate and management feedbacks”, PhD course in Novel Physics Methodologies for Ecological Research, Second University of Naples, Italy
- 2011 “Climate changes and effects on the biosphere”, PhD course in Ecology, University of Udine, Italy, 03/05/2011
- 2011 “Micrometeorological techniques for GHGs’ flux monitoring in agricultural and forest ecosystems”, Open winter school PhD course in Crop Production, University of Padova. Vandoies (BZ), 23-27 gennaio 2011
- 2013 “Biochar: what we know and what we do not know (but hopefully we will)”, Erasmus IP ECOCYCLES, University of Palermo, 14th July 2013 – 4th August 2013, Palermo, Italy
- 2013 “Mediterranean forest ecosystems under changing precipitation regimes” presso Erasmus IP ECOCYCLES, University of Palermo, 14th July 2013 – 4th August 2013, Palermo, Italy
- 2016 “Conversion of Fagus sylvatica coppices to high forests: experiences in Eastern Italian Pre-alps”, Chair of Silviculture, University of Freiburg, Germany

## Supervisor or co-supervisor of bachelor and master thesis

1. “Quantificazione del danno e dinamiche post incendio del Carso del 2022”. Laureando: Giacomo Azzani. Supervisor: G. Alberti; co-supervisor: A. Tomao, F. Boscutti. Corso di Laurea in Scienze per l’Ambiente e la Natura. A.A. 2022/2023
2. “Applicazione di sistemi di certificazione della biodiversità a foreste gestite o lasciate alla libera evoluzione nelle Alpi orientali”. Supervisor: G. Alberti; co-supervisor: A. Tomao. Corso di Laurea in Scienze per l’Ambiente e la Natura. A.A. 2022/2023
3. “Metodi di remote sensing per l’individuazione delle foreste vetuste in Friuli Venezia Giulia”. Laureando: Lorenzo Sabbadini. Supervisor: G. Alberti; co-supervisor: A. Tomao, L. Cadez. Corso di Laurea in Scienze Agrarie curriculum Montano e Forestale. A.A. 2022/2023
4. “Dinamiche e accrescimento di comunità vegetali in successioni secondarie nelle Prealpi Giulie”. Laureando: Beatrice Salamon. Supervisor: G. Alberti; co-supervisor: A. Tomao. Corso di Laurea in Scienze Agrarie curriculum Montano e Forestale. A.A. 2022/2023

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5. "Arboricoltura da legno: potenzialità e limiti nella coltivazione della Pauwlonia". Laureando: Lorenzo Buttazzoni. Supervisor: G. Alberti. Corso di Laurea in Scienze Agrarie curriculum Montano e Forestale. A.A. 2022/2023
6. "Impatto del cambiamento climatico sulle foreste planiziali". Laureando: Luca Zen. Supervisor: G. Alberti. Corso di Laurea Magistrale in Analisi e Gestione dell'Ambiente. A.A. 2021/2022
7. "Fustaie transitorie di faggio: valutazione dopo 10 anni dagli interventi selvicolturali in Cansiglio". Laureando: Mattia Perin. Supervisor: G. Alberti. Corso di Laurea in Scienze Agrarie curriculum Montano e Forestale. A.A. 2020/2021
8. "Applicazioni multimediali per la dendrometria". Laureando: Mattia Casagrande. Supervisor: G. Alberti. Corso di Laurea in Scienze per l'Ambiente e la Natura. A.A. 2020/2021
9. "Bostrico (*Ips typographus*) e Vaia nella foresta di Paneveggio (TN): influenza delle caratteristiche dei popolamenti forestali e della gestione post evento delle aree schiantate". Laureanda: Giulia Nicoletto. Supervisor: G. Alberti. Corso di laurea in Scienze agrarie, degli alimenti e dell'ambiente montano. Università di Bolzano. A.A. 2021/2022
10. "La certificazione forestale della biodiversità: un'analisi comparativa". Laureanda: Anna Pozzatti. Supervisor: G. Alberti. Co-supervisor: F. Cogo, D. Troncon. Corso di laurea in Scienze agrarie, degli alimenti e dell'ambiente montano. Università di Bolzano. A.A. 2021/2022
11. "Mille miliardi di alberi, si può fare ?" Laureando: Giuseppe Iob. Supervisor: G. Alberti.. Corso di Laurea in Scienze per l'Ambiente e la Natura. A.A. 2020/2021
12. "Realizzazione di una rete di monitoraggio a scala regionale nelle foreste colpite dalla tempesta Vaia". Laureando: Paolo Treu. Supervisor: G. Alberti. Co-supervisor: L. Cadez. Corso di Laurea in Agraria curriculum Montano e Forestale. A.A. 2020/2021
13. "Benefici e limiti dell'utilizzo del bosco a scopi educativi in età prescolare". Laureanda: Chiara del Fabbro. Supervisor: G. Alberti. Corso di Laurea in Scienze per l'Ambiente e Natura. A.A. 2019/2020
14. "Effetto di diversi tipi di taglio d'avviamento ad alto fusto sulla resistenza/resilienza agli eventi estremi in boschi di faggio.". Laureanda: Gaia Bartolomeo. Supervisor: G. Alberti. Corso di Laurea in Scienze per l'Ambiente e Natura. A.A. 2019/2020
15. "Benefici fisici e mentali del ritorno alla natura". Laureanda: Chiara Braidot. Supervisor: G. Alberti. Corso di Laurea in Scienze per l'Ambiente e Natura. A.A. 2019/2020
16. "Studio degli effetti idrologici dei cambiamenti d'uso del suolo nel bacino del Torre dal 1957 al 1984". Laureanda: Alessia Pizzutti. Supervisor: F. Cazorzi. Co-supervisor: G. Alberti. Corso di Laurea Magistrale in Scienze e Tecnologie per l'Ambiente ed il Territorio. A.A. 2018-2019
17. "Effetti della diversità arborea sulla resistenza e resilienza degli ecosistemi forestali al cambiamento climatico". Laureando: Federico Toffoletti. Supervisor: G. Alberti. Co-supervisor: C. Palandrani. Corso di Laurea in Scienze per l'Ambiente e Natura. A.A. 2018-2019
18. "Ecosistemi forestali e eventi estremi: diradamenti e resistenza allo stress idrico". Laureando: Matilde Copetti. Supervisor: G. Alberti. Corso di Laurea in Agraria, curriculum Montano-Forestale. A.A. 2018-2019
19. "Le pinete del carso triestino". Laureando: Gianluca Barnabà. Supervisor: G. Alberti. Corso di Laurea in Agraria, curriculum Montano-Forestale. A.A. 2016-2017
20. "Il ruolo del verde Pubblico del Comune di San Giorgio di Nogaro nello stoccaggio di Carbonio". Laureando: Jacopo Paschetto. Supervisor: G. Alberti. Corso di Laurea in Scienze per l'Ambiente e Natura. A.A. 2016-2017
21. "Progettazione di un soprassuolo arboreo di collegamento tra due boschi planiziali a Muzzana del Turignano (UD)". Laureando: Mattia Zanotel. Supervisor: G. Alberti. Corso di Laurea in Scienze per l'Ambiente e Natura. A.A. 2016-2017
22. "Accrescimento ed efficienza d'uso dell'acqua in una foresta vetusta della Bosnia Herzegovina". Laureando: Greta Zanin. Supervisor: G. Alberti. Co-supervisor: P. Cherubini. Corso di Laurea in Agraria, curriculum Montano-Forestale. A.A. 2016-2017
23. "FORESTA 2.0. I nuovi strumenti di misurazione del bosco". Laureando: Nicola Caissutti. Supervisor: G. Alberti. Corso di Laurea in per l'Ambiente e la Natura. Università di Udine. A.A. 2015-2016.

24. "Variabilità spaziale dei flussi e degli stock di carbonio nel suolo in due ecosistemi agricoli". Laureando: Emanuela Luzzi. Supervisor: G. Alberti; co-supervisor: A. Peressotti, G. Delle Vedove. Corso di Laurea in Scienze per l'Ambiente e la Natura. Università di Udine. A.A. 2015-2016.
25. "Proprietà fisico-meccaniche del legno proveniente da piantagioni di pianura in Friuli Venezia Giulia". Laureando: Alberto Domini. Supervisor: G. Alberti. Corso di Laurea in Scienze Agrarie, curriculum Sistemi Montano-Forestali. Università di Udine. A.A. 2015-2016.
26. "Biodiversità e carbonio nel suolo". Laureando: Simone Roman Zotta. Supervisor: G. Alberti. Corso di Laurea in Scienze per l'Ambiente e la Natura. Università di Udine. A.A. 2014-2015.
27. "L'esperienza BIOTREE: effetti della diversità forestale sul carbonio del suolo e sull'attività microbica". Laureando: Riccardo Piuazzo. Supervisor: G. Alberti; co-supervisor: F. Fornasier. Corso di Laurea in Scienze per l'Ambiente e la Natura. Università di Udine. A.A. 2014-2015.
28. "Analisi quali-quantitativa della produzione legnosa potenziale in acero-frassineti delle Prealpi friulane. Laureando: Matteo Florean. Supervisor: G. Alberti. Corso di Laurea in Scienze per l'Ambiente e la Natura. Università di Udine. A.A. 2014-2015.
29. "Gestione forestale e rinnovazione in acero-frassineti nel comune di Taipana". Laureando: Nicolò Francescato. Supervisor: G. Alberti. Corso di Laurea in Scienze per l'Ambiente e la Natura. Università di Udine. A.A. 2014-2015.
30. "Carbonio nel suolo e colture da biomassa: una review a livello europeo". Laureando: Massimiliano Sonego. Supervisor: G. Alberti. Corso di Laurea in Scienze per l'Ambiente e la Natura. Università di Udine. A.A. 2014-2015.
31. "Gestione selvicolturale in fustaie transitorie di faggio: osservazioni a tre anni dall'esecuzione dei tagli". Laureando: Alberto Zanchetta. Supervisor: G. Alberti. Corso di Laurea in Scienze per l'Ambiente e la Natura. Università di Udine. A.A. 2013-2014.
32. "Ipotesi di sfruttamento di area boschiva nella Comunità Montana del Gemonese, della Val Canale e Canal del Ferro". Laureando: Giorgio Lavaroni. Supervisor: R. Gubiani; co-supervisor: G. Alberti. Corso di Laurea in Scienze e Tecnologie Agrarie. Università di Udine. A.A. 2013-2014.
33. "Fustaie transitorie di faggio: caratteristiche strutturali ed analisi economica dei tagli di rinnovazione". Laureando: Luca Poloni. Supervisor: G. Alberti. Corso di Laurea in Scienze per l'Ambiente e la Natura. Università di Udine. A.A. 2012-2013.
34. "Relazioni tra accumulo del carbonio nei boschi di neoformazione e indicatori bioclimatici". Laureando: Tomaso Cellini. Supervisor: V. Casolo; co-supervisor: G. Alberti. Corso di Laurea in Scienze per l'Ambiente e la Natura. Università di Udine. A.A. 2012-2013.
35. "Gestione selvicolturale in fustaie transitorie di faggio: effetti sul processo di rinnovazione". Laureando: Fabio Marcolin. Supervisor: G. Alberti. Corso di Laurea in Scienze per l'Ambiente e la Natura. Università di Udine. A.A. 2012-2013.
36. "Confronto tra due soluzioni tecniche per l'esecuzione di diradamenti in piantagioni di pianura". Laureando: Giulia Olivotto. Supervisor: G. Alberti. Corso di Laurea in Scienze per l'Ambiente e la Natura. Università di Udine. A.A. 2012-2013.
37. "Gestione forestale e rinnovazione in acero-frassineti nel Comune di Taipana". Laureando: Nicolò Francescato. Supervisor: G. Alberti. Corso di Laurea in Scienze e Tecnologie Agrarie. Università di Udine. A.A. 2012-2013.
38. "Progettazione di un sentiero didattico-naturalistico nell'oasi di Cervara (TV)". Laureando: Giulia Fava. Supervisor: G. Alberti. Co-supervisor: E. Tomat. Corso di Laurea in Scienze e Tecnologie Agrarie. Università di Udine. A.A. 2012-2013.
39. "Boschi di neoformazione e ciclo del carbonio: una review". Laureando: Riccardo Medeossi. Supervisor: G. Alberti. Corso di Laurea in Scienze per l'Ambiente e la Natura. Università di Udine. A.A. 2012-2013.
40. "Fustaie transitorie di faggio: caratteristiche strutturali ed analisi economica dei tagli di rinnovazione". Laureando: Matteo Inserra. Supervisor: G. Alberti. Corso di Laurea in Scienze e Tecnologie per l'Ambiente e la Natura. Università di Udine. A.A. 2012-2013.
41. "Arboricoltura di pregio nella provincia di Udine: limiti e prospettive future". Laureando: Matteo Inserra. Supervisor: G. Alberti. Co-supervisor: M. Danelon. Corso di Laurea in Scienze per l'Ambiente e la Natura. Università di Udine. A.A. 2012-2013.



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42. "Ciclo del carbonio e produttività nei seminativi del Friuli Venezia Giulia: confronto tra Agricoltura Conservativa e Convenzionale". Laureando: Francesco della Mora. Supervisor: prof. A. Peressotti. Co-supervisor: G. Alberti. Corso di Laurea Magistrale in Scienze e Tecnologie per l'Ambiente ed il Territorio. Università di Udine. A.A. 2011-2012
43. "Effetti di due tipi di biochar sulla fertilità di suoli agricoli". Laureando: Luca Leccese. Supervisor: G. Alberti. Co-supervisor: A. Peressotti, C. Zavalloni. Corso di Laurea in Scienze e Tecnologie Agrarie. Università di Udine. A.A. 2010-2011.
44. "Indagine conoscitiva per l'applicazione delle schede forestali al Consorzio Silvo-Pastorale di Taipana". Laureando: Nicholas Sbrizzi. Supervisor: G. Alberti. Co-supervisor: M. Danelon. Corso di Laurea in Scienze per l'Ambiente e la Natura. Università di Udine. A.A. 2010-2011.
45. "Analisi preliminare per la costituzione di un consorzio forestale nel comune di Cavazzo Carnico". Laureando: Enrico Radivo. Supervisor: G. Alberti. Co-supervisor: G. de Simon. Corso di Laurea in Scienze per l'Ambiente e la Natura. Università di Udine. A.A. 2010-2011
46. "Valutazione delle emissioni ed efficienza di stufe pirolitiche". Laureando: Nicola Narduzzi. Supervisor: A. Peressotti. Co-supervisor: G. Alberti, C. Zavalloni, D. dell'Antonia. Corso di Laurea in Scienze e Tecnologie Agrarie. Università di Udine. A.A. 2010-2011.
47. "Cambiamento climatico ed ecosistemi terrestri: risposta della respirazione eterotrofica a manipolazioni della temperatura del suolo in un ecosistema agricolo". Laureando: Alessio Dalla Torre. Supervisor: G. Alberti. Co-supervisor: A. Peressotti, G. De Simon. Corso di Laurea in Scienze e Tecnologie per l'Ambiente e la Natura. Università di Udine. A.A. 2010-2011.
48. "Uso del suolo e ciclo del carbonio: differenze tra un prato pascolo ed una successione secondaria nel Carso sloveno". Laureando: Damiano Braidotti. Supervisor: G. Alberti. Co-supervisor: prof. A. Peressotti. Corso di Laurea in Scienze e Tecnologie per l'Ambiente ed il Territorio. Facoltà di Agraria. Università di Udine. A.A. 2008-2009.
49. "Accrescimento longitudinale e volumetrico di piceo-abieteti in Val Pesarina: considerazioni sul metodo". Laureando: Mattia Cleva. Supervisor: G. Alberti. Co-supervisor: prof. A. Peressotti. Corso di Laurea in Scienze e Tecnologie per l'Ambiente e la Natura. Facoltà di Agraria. Università di Udine. A.A. 2008-2009.
50. "Ciclo del carbonio nelle foreste del Cansiglio". Laureando: Giuseppe de Simon. Supervisor: Prof. A. Peressotti. Co-supervisor: G. Alberti. Corso di Laurea Specialistica in Scienze e Tecnologie per l'Ambiente ed il Territorio. Facoltà di Agraria. Università di Udine. A.A. 2007-2008.
51. "Boschi e clima: riserve di carbonio nelle foreste del Friuli Venezia Giulia." Laureando: Marco di Gilio. Supervisor: A. Peressotti. Co-supervisor: G. Alberti. Corso di Laurea in Scienze e Tecnologie per l'Ambiente e la Natura. Università di Udine. A.A. 2007-2008.
52. "Accumulo di carbonio in ecosistemi forestali derivanti da successioni secondarie su terreni ex-agricoli. Un caso di studio nelle Prealpi orientali". Laureando: Vincenzo Leronni. Supervisor: Dr. P. Mairota, G. Alberti. Corso di Laurea Specialistica in Gestione dell'Ambiente e del Territorio Forestale. Facoltà di Agraria. Università di Bari. A.A. 2006-2007.
53. "Gestioni agricole ed emissioni di gas serra". Laureando: Luca Spizzamiglio. A.A. 2006-2007. Supervisor: Prof. A. Peressotti. Co-supervisor: G. Alberti. Corso di Laurea in Scienze e Tecnologie per l'Ambiente e la Natura. Facoltà di Agraria. Università di Udine. A.A. 2006-2007.
54. "Accumulo del carbonio nel suolo di impianti boschivi della bassa pianura friulana". Laureando: Gabriele Pingitore. Supervisor: Dr. G. delle Vedove. Co-supervisor: G. Alberti. Corso di Laurea in Scienze e Tecnologie per l'Ambiente e la Natura. Facoltà di Agraria. Università di Udine. A.A. 2006-2007.
55. "Interventi di afforestazione nella pianura friulana: aspetti qualitativi e produttivi". Laureanda: Danusia Piovesana. Supervisor: Dr. A. Peressotti. Co-supervisor: G. Alberti. Corso di Laurea in Scienze e Tecnologie per l'Ambiente e la Natura. Facoltà di Agraria. Università di Udine. A.A. 2004-2005.
56. "Accumulo di biomassa legnosa e carbonio in una cronosequenza di acero-frassineti". Laureanda: Sara Berra. Supervisor: Dr. A. Peressotti. Co-supervisor: G. Alberti. Corso di Laurea in Scienze e Tecnologie per l'Ambiente e la Natura. Facoltà di Agraria. Università di Udine. A.A. 2004-2005.

57. "L'insediamento del bosco nei prati abbandonati del comune di Rigolato (Ud)". Laureando: Patrick Candido. Supervisor: Prof. R. del Favero. Co-supervisor: G. Alberti. Corso di Laurea in Scienze Forestali ed Ambientali. Facoltà di Agraria. Università di Padova. A.A. 2003-2004.
58. "Caratteristiche strutturali, produttività e ciclo del carbonio in boschi di neoformazione delle Prealpi Giulie". Laureando: Giacomo Blasone. Supervisor: Dr. A. Peressotti. Co-supervisor: G. Alberti. Corso di Laurea in Scienze e Tecnologie per l'Ambiente e la Natura. Facoltà di Agraria. Università di Udine. A.A. 2003-2004.

## Supervisor and co-supervisor of PhD thesis

1. "Effects of biodiversity on soil C dynamics, tree response to extreme events and water-use efficiency in forest ecosystems". PhD student: Chiara Palandrani. Supervisor: G. Alberti. Corso di Dottorato in Ambiente e Vita, Università di Trieste. A.A. 2018-2019 (XXXIII ciclo).
2. "Carbon dynamics in forests and croplands: influence of management and climate extremes". PhD student: Giuseppe de Simon. Supervisor: G. Zerbi; co-supervisor: G. Alberti. Corso di Dottorato in Economia, Ecologia e Tutela dei Sistemi Paesistico-ambientali, Università di Udine. A.A. 2011-2012 (XXV ciclo).

## **Research activities:**

During my PhD in Ecology and thereafter, my research activity has mainly focused on responses of terrestrial ecosystems to environmental change and on possible mitigation strategies to reduce negative impacts on ecosystem functioning and services (i.e. NITROEUROPE, GHG-EUROPE, CARBOITALY, CARBOEXTREME projects). I have been always trying to consider mostly biogeochemical rather than geochemical cycles alone in order to have an overall ecosystem perspective. In this context, I became familiar with different techniques to quantify energy fluxes, plant growth and carbon and nitrogen stocks such as inventories, micrometeorological approaches (i.e. automated chambers and eddy covariance), stable isotopes and remote sensing.

I have been also focusing on the impact of forest management on biodiversity and on the relationship between biodiversity and ecosystem services. Thus, I participated to a global study recently published in *Science* on the impact of biodiversity on forest productivity. Moreover, I have been studying the impact of biodiversity on soil carbon sequestration and soil enzyme activities within the BIOTREE experiment (Germany) and the impact of silvicultural management on plant and animal diversity in plain forests in Friuli Venezia Giulia (Italy).

As managing forests to maintain and/or enhance their ecosystem services is a great challenge for the society, I have been also involved in developing accounting methodologies to create a local voluntary market for carbon credits (i.e. CARBOMARK and CARBONPRO projects).

Recently, I have been implementing research activities on biochar, a carbon-rich pyrolysis co-product used as soil amendment, as a new possible strategy to increase carbon stocks and soil fertility (i.e. EUROCHAR project). In this context, I have been not only interested in basic research, but I have been participating in technology transfer projects in developing countries (i.e. BEBI and BIOCHARPLUS projects) where we implemented clean-cooking pyrolytic stoves for the production of biochar with the final aim of improving soil fertility and reducing pressure on forest ecosystems for fuelwood.



## GIORGIO ALBERTI CV

- **Financed projects as principal investigator (PI) / research unit coordinator (RUC) / sub-contractor (SC):**

| Period      | Name                                                                                                    | Funding type <sup>1</sup> | Call or funding agency                                   | My specific role | Lead partner                                | Total Budget | Partner budget |
|-------------|---------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------------|------------------|---------------------------------------------|--------------|----------------|
| 2024 – now  | European Cross-Border University (ACROSS)                                                               | EU                        | ERASMUS-EDU-2024-EUR-UNIV-1                              | RUC              | Chemnitz University of Technology, Germania | € 14.400.000 | € 1,502,760    |
| 2024 – now  | Effects of rewilding in forests and agricultural lands on carbon sequestration and diversity (WILDCARD) | EU                        | HORIZON-CL5-2022-D1-02-05                                | PI               | University of Udine, Italy                  | € 10.161.445 | € 881.610      |
| 2023 – now  | Identifying and characterizing old-growth forest in Friuli Venezia Giulia region                        | RE                        | Regione Friuli Venezia Giulia                            | PI               | University of Udine                         | € 104.772    | € 104.772      |
| 2023 – now  | Rewilding policies for carbon sequestration under increasing fire risk – REWILD-FIRE                    | NA                        | PRIN-MUR                                                 | RUC              | University of Torino, Italy                 | € 308.671    | € 99.250       |
| 2020 – 2023 | Shared PRIVATE FOREst MANAgement in Eastern Alps (PRI.FOR.MAN.)                                         | RE                        | Rural Development Plan, Friuli Venezia Giulia, Italy     | RUC              | Danta Legnami, Italy                        | € 258.049    | € 86.399       |
| 2021 – 2022 | Setting up a monitoring network after Vaia storm                                                        | NA                        | Ministry of Agriculture and Forestry, Italy              | RUC              | University of Padova, Italy                 |              | € 23.460       |
| 2020 – 2022 | Acquavitis                                                                                              | EU                        | European Union - INTERREG V-A ITALIA-SLOVENIJA 2014-2020 | RUC              | Kmetijski inštitut Slovenije, Slovenia      | € 746.448    | € 155.675      |
| 2017 – 2019 | Pilot test on                                                                                           | O                         | World Bank                                               | SC               | Starter s.r.l.,                             | -            | € 20.000       |

## GIORGIO ALBERTI CV

|             |                                                                                                             |    |                                                     |                            |                                                         |             |           |
|-------------|-------------------------------------------------------------------------------------------------------------|----|-----------------------------------------------------|----------------------------|---------------------------------------------------------|-------------|-----------|
|             | introduction of improved pyrolytic clean cooking systems in north-west and east regions of Burundi          |    |                                                     |                            | Padova, Italy                                           |             |           |
| 2013 – 2014 | ELUM - Ecosystem land-use modeling and soil carbon GHG flux field trial project for the bioenergy programme | NA | Energy Technology Institute, UK                     | SC                         | Centre for Ecology & Hydrology, UK                      | -           | £ 29,812  |
| 2011 – 2016 | EXPEER - Distributed infrastructure for EXPERimentation in Ecosystem Research                               | EU | FP7-INFRASTRUCTURES-2010-1                          | Transnational site manager | Institute National De La Recherche Agronomique, Francia | € 9.414.736 | € 47.501  |
| 2011 – 2015 | Testing new silvicultural systems for ash and maple secondary forests                                       | RE | Regional Government of Friuli Venezia Giulia, Italy | PI                         | University of Udine, Italy                              | € 36.000    | € 36.000  |
| 2011 – 2014 | Production and market potentials for plain arboriculture in Friuli Venezia Giulia (ARBOPLAN)                | RE | Regional Government of Friuli Venezia Giulia, Italy | PI                         | University of Udine, Italy                              | € 142.024   | € 142.024 |
| 2011 – 2014 | EUROCHAR - Biochar for large-scale removal of greenhouse gasses (GHG) from the atmosphere                   | EU | VII Framework Programme - ENV.2010.3.1.8.1          | SC                         | CNR-IBIMET, Italy                                       | € 3.502.535 | € 90.000  |
| 2011 – 2012 | Testing new silvicultural systems                                                                           | RE | Regional Government of Friuli Venezia Giulia,       | PI                         | University of Udine, Italy                              | € 15.000    | € 15.000  |

## GIORGIO ALBERTI CV

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|  | for old beech coppices |  | Italy |  |  |  |  |
|--|------------------------|--|-------|--|--|--|--|

- **Project I was involved in as member of a research unit:**

| Period      | Name                                                                                                                         | Funding type <sup>1</sup> | Call or funding agency                              | My specific role                                                         | Lead partner                                 | Total Budget  | Partner budget                         |
|-------------|------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------|---------------|----------------------------------------|
| 2022 – now  | National Biodiversity Future Centre                                                                                          | NA                        | National Recovery Plan                              | Responsible for Task 4.2.2 at University of Udine                        | CNR Italy                                    | € 320.026.666 | € 2.500.001 (€ 702.439 for Task 4.2.2) |
| 2022 – now  | Agritech                                                                                                                     | NA                        | National Recovery Plan                              | Senior scientist within the University of Udine research unit (Task 4.2) | University of Naples, Italy                  | € 350.000.000 | € 2.127.000 (€ 601.000 for Task 4.2)   |
| 2014 – 2017 | BIOCHARPLUS - Energy, health, agricultural and environmental benefits from biochar use: building capacities in ACP Countries | EU                        | European Union ACP Science and Technology Programme | Senior scientist within University of Udine research unit                | University of Udine, Italy                   | € 1.176.446   | € 295.111                              |
| 2010 – 2013 | BEBI – Agricultural and environmental Benefits from Biochar use in ACP Countries                                             | EU                        | European Union ACP Science and Technology Programme | Young scientist within University of Udine research unit                 | University of Udine, Italy                   | € 999,756     |                                        |
| 2010 – 2013 | GHG-EUROPE - Greenhouse gas management in European land use systems                                                          | EU                        | VII Framework Programme Theme ENV.2009.1.1.3.1      | Young scientist within University of Udine research unit                 | Johann Heinrich von Thünen Institut, Germany | € 8.925.737   | € 40.200                               |
| 2010 – 2011 | ALIFORMIDI -                                                                                                                 | RE                        | Regional Government of                              | Young scientist                                                          | University of                                | € 75.500      | € 75.500                               |

## GIORGIO ALBERTI CV

|             |                                                                                                             |    |                                                                                   |                                                               |                                                                           |              |           |
|-------------|-------------------------------------------------------------------------------------------------------------|----|-----------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------|--------------|-----------|
|             | Mapping Alpine forests using LiDAR data                                                                     |    | Friuli Venezia Giulia, Italy                                                      | within University of Udine research unit                      | Udine, Italy                                                              |              |           |
| 2009 – 2013 | CARBOEXTREME - The terrestrial Carbon cycle under Climate Variability and Extremes a Pan-European synthesis | EU | VII Framework Programme - Subactivity 6.1.1, Pressures on Environment and Climate | Young scientist within University of CNR-IBIMET research unit | Max Plank Institute, Germany                                              | € 4.677.523  | € 102.000 |
| 2009 – 2011 | CARBOMARK - Improvement of policies toward local voluntary carbon markets for climate change mitigation     | EU | EU LIFE+ Project                                                                  | Young scientist within University of Udine research unit      | Regione Veneto, Italy                                                     | € 1.088.028  | € 131.202 |
| 2007 – 2008 | CARBONPRO - Carbon balance drafting and new resources management tools according to Kyoto Protocol          | EU | Interreg Cadses IIIB                                                              | Young scientist within University of Udine research unit      | Regione Friuli Venezia Giulia, Italy                                      | € 1.800.000  | € 289.000 |
| 2006 – 2011 | NITROEUROPE - The nitrogen cycle and its influence on the European greenhouse gas balance                   | EU | VI Framework Programme                                                            | Young scientist within University of Udine research unit      | Natural Environment Research Council - Centre for Ecology & Hydrology, UK | € 15.920.000 | € 278.000 |
| 2006 – 2010 | CARBOITALY - The Italn net for measuring forest and agriculture carbon sinks and developing                 | NA | Italn Ministry for Research                                                       | Young scientist within University of Udine research unit      | University of Tuscia, Italy                                               | € 4.235.000  | € 409.000 |

## GIORGIO ALBERTI CV

|  |                                                                                  |  |  |  |  |  |  |
|--|----------------------------------------------------------------------------------|--|--|--|--|--|--|
|  | a system to predict the absorption of greenhouse gases by terrestrial ecosystems |  |  |  |  |  |  |
|--|----------------------------------------------------------------------------------|--|--|--|--|--|--|

- Submitted project as principal investigator (PI) of research unit coordinator (RUC) (eligible projects, but not funded):

| Year | Project                                                                                                                                                                                | Funding agency <sup>1</sup> | Call             | My specific role | Lead partner                               | Total budget | Partner budget | Score      |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------|------------------|--------------------------------------------|--------------|----------------|------------|
| 2021 | Sustainable green solutions to advance ENERGY access in afriCA                                                                                                                         | EU                          | H2020-LC-GD-2020 | PI               | University of Udine, Italy                 | € 10.000.000 | € 757.000      | 14 / 15    |
| 2020 | PRIN-2010 "PalePLANTS - PaleGreen Plants: at the crossroad between production and environmental sustainability"                                                                        | NA                          | PRIN-MUR         | RUC              | University of Verona, Italy                | € 792.640    | € 155.195      | 94.7 / 100 |
| 2020 | University for a New European Society: establishment and actions of a European University aiming at addressing the challenges faced by Southern Europe from sustainable and innovative | EU                          | EAC-A02-2019-1   | RUC              | UNIVERSITE PARIS XII VAL DE MARNE, Francia | € 4.998.125  | € 883.369      | 80 / 100   |

## GIORGIO ALBERTI CV

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|------|-----------------------------------------------------------------------|----|-----------|----|----------------------------|-----------|-----------|----------|
|      | perspectives                                                          |    |           |    |                            |           |           |          |
| 2019 | FOREST for Human wellbeing and health                                 | NA | FISR-2019 | PI | University of Udine, Italy | € 944.533 | € 480.533 | 42 / 60  |
| 2017 | BIOdiversity and FOREst Ecosystem Services in Italy (BIOFORESt-Italy) | NA | PRIN-2017 | PI | University of Udine, Italy | € 671.985 | € 180.840 | 84 / 100 |



## Technical skills:

- Proficiency using and maintaining environmental monitoring equipment including LICOR infrared analyzer, Gill anemometer, LI-6400, Campbell Scientific Datalogger (CR10, CR10X, CR1000), soil respiration systems and other soil sensors
- Stable isotopes analysers
- Nitrogen and carbon analysis using CHN elemental analyser
- Allometric measurements and computations.
- GIS (ArcGis, Arcview)
- Word, Excel, Access, PowerPoint, Vector Works (MiniCad), MySQL, STATA

## Institutional experience

|             |                                                                                                                            |
|-------------|----------------------------------------------------------------------------------------------------------------------------|
| Since 2019  | Pro-Vice Chancellor for International Relations, University of Udine, Italy                                                |
| 2015 – 2019 | Delegate of the Rector for International Mobility, University of Udine, Italy                                              |
| 2012 – 2015 | Elected member of the University Senate, University of Udine                                                               |
| Since 2011  | Member of the Technical-scientific Parks and Reserves committee at the Regional Government of Friuli Venezia Giulia, Italy |

## Editorial experience:

|            |                                                           |
|------------|-----------------------------------------------------------|
| Since 2021 | Editorial Board, Forests                                  |
| Since 2017 | Editorial Advisory Board, Global Change Biology Bioenergy |
| Since 2015 | Subject editor, iForest                                   |

## Member of conference organizing committee

|      |                                                                                                                                                                                                                                                    |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2013 | IX Congress of the Italian Society of Forest Ecology and Silviculture (SISEF) “Multi-functionality of Mountain Forests Systems: Challenges and Opportunities for Research and Development”, 16-19/09/2013, Free University of Bolzano, South Tyrol |
| 2014 | “ForestSAT 2014: A bridge between forest sciences, remote sensing, and geo-spatial applications” 4-7/11/2014, Riva del Garda, Italy                                                                                                                |

## Review experience (scientific journals):

Global Change Biology and Bioenergy, Scientific Report, Annals of Botany, Global Change Biology, Forest Ecology and Management, Ecology Letters

## Review experience (research proposals):

|             |                                                                                                                                                                       |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2022        | European Joint Programme Soil ( <a href="https://ejpsoil.eu/">https://ejpsoil.eu/</a> )                                                                               |
| 2020 - 2022 | Member of the Evaluation panel of the Italian University System (area 7, VQR 2015-2019). National Agency for Research and University System Evaluation (ANVUR), Italy |
| 2021        | European Joint Programme Soil ( <a href="https://ejpsoil.eu/">https://ejpsoil.eu/</a> )                                                                               |
| 2020        | Central Finance and Contracting Agency (CFCA) of Latvia (1.1.1.1 “Industry-Driven Research”)                                                                          |
| 2018        | FIRB call, Ministry for University and Research, Italy                                                                                                                |

# GIORGIO ALBERTI CV

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|------|--------------------------------------------------------|
| 2016 | Polish Academy of Science, Poland                      |
| 2015 | Polish Academy of Science, Poland                      |
| 2013 | FIRB call, Ministry for University and Research, Italy |

## Publication list:

My overall **H index is 30** (source: Scopus, last update: 29/06/2024). Since 2005, I have authored/co-authored **116 papers** distributed among international journals (86), national journals (15), book chapters (13) and books (2). Journal papers have been **cited a total of 4264 times**; the most cited paper has **914** citations.

### Publications on ISI/SCOPUS journals:

1. Zou Y., Zohner C.M., ..., **Alberti G.**, ..., Crowther T. (2024) Positive feedbacks and alternative stable states in forest leaf types. *Nature Communications*, 15: 4658
2. Olmo V., Bacaro G., Sigura M., **Alberti G.**, Castello M., Rocchini D., Petruzzellis F. (2024) Mind the gaps: horizontal canopy structure affects the relationship between taxonomic and spectral diversity. *International Journal of Remote Sensing*, 45: 833–2864.
3. Motta R., **Alberti G.**, Ascoli D., Berretti R., Bilic S., Bono A., Milic C., Vojislav D., Finsinger W., Garbarino M., Govedar Z., Keren S., Meloni F., Ruffinatto F., Nola P. (2024) Old-growth forests in the Dinaric Alps of Bosnia-Herzegovina and Montenegro: a continental hot-spot for research and biodiversity. *Front. For. Glob. Change*, 7: 1371144.
4. Marangon D., Betetto C., Wohlgemuth T., Cadez L., **Alberti G.**, Tomelleri T., Lingua E. (2024) Impact of salvage logging on short-term natural regeneration in montane forests of the Alps after large windthrow events. *Forest Ecology and Management*, 567: 122085
5. Bouchard E., Searle E., Drapeau P., ..., **Alberti G.**, ..., Paquette A. (2024) Global patterns and environmental drivers of forest functional composition. *Global Ecol Biogeogr.*, 33: 303–324.
6. Bono A., **Alberti G.**, Berretti R., Curovic M., Dukic V., Motta R. (2024) The largest European forest carbon sinks are in the Dinaric Alps old-growth forests: comparison of direct measurements and standardised approaches. *Carbon Balance and Management*, 19 : 15
7. Mo, L., Zohner, C.M., Reich, P.B., ... **Alberti G.**, et al. (2023) Integrated global assessment of the natural forest carbon potential. *Nature*, <https://doi.org/10.1038/s41586-023-06723-z>
8. Ma, H., Crowther, T.W., Mo, L., ... **Alberti G.**, et al. (2023) The global biogeography of tree leaf form and habit. *Nature Plants*, 9, 1795–1809
9. Delavaux, C.S., Crowther, T.W., Zohner, C.M., ... **Alberti G.**, et al. (2023) Native diversity buffers against severity of non-native tree invasions. *Nature*, 621: 773–781.
10. Calderan A., Cogato A., Braidotti R., **Alberti G.**, Lisjak K., Herrera J.C., Peterlunger E., Sivilotti P. (2023) Physiological characterization of Vitis hybrid cv Merlot Khorus under two different water regimes in northeastern Italy. *Scientia Horticulturae*, 321 : 112318
11. Buoso S., Lodovici A., Salvatori N., Tomasi N., Mustapha A., Maillard A., MArroni F., **Alberti G.**, Peressotti A., Pinton R., Zanin L. (2023) Nitrogen nutrition and xylem sap composition in Zea mays: effect of urea, ammonium and nitrate on ionic and metabolic profiles. *Plant Science*, 336: 111825
12. Spielmann F.M., Hammerle A., Kitz F., Gerdel K., **Alberti G.**, Peressotti A., Delle Vedove G., Wohlfart G. (2023) On the variability of the leaf relative uptake rate of carbonyl sulfide compared to carbon dioxide: Insights from a paired field study with two soybean varieties. *Agriculture and Forest Meteorology*, 338: 109504
13. Hordijk I., Maynard D.S., Hart S.P., ..., **Alberti G.**, et al. (2023) Evenness mediates the global relationship between forest productivity and richness. *Journal of Ecology*, 111:1308–1326
14. Acebron K., Salvatori N., **Alberti G.**, Muller O., Peressotti A., Rascher U., Matsubara S. (2023) Elucidating the photosynthetic responses in chlorophyll-deficient soybean (Glycine max, L.) cultivar. *Journal of Photochemistry and Photobiology*, 100152
15. Mahmoodi M.B., Kooch Y., **Alberti G.** (2023) Tree species is more effective than season dynamics on topsoil function and CO<sub>2</sub> emissions in the temperate forests. *Ecological Research*, 38:134–145.

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16. Liang J., Gamarra J.G.P., Picard N., Zhou M., ..., **Alberti G.**, ... Hui C. (2022) Co-limitation toward lower latitudes shapes global forest diversity gradients. *Nature Ecology and Evolution*, 6 : 1423–1437.
17. Olmo V., Sigura M., **Alberti G.** (2022) Forest plantations with public subsidies: to harvest or not to harvest, this is the question. *iForest*, 15 : 229-233
18. Foscari A., **Alberti G.**, Zotti M., Incerti G. (2022) Species-specific DNA distribution in spruce-beech forest soil. *Environmental DNA*, 4:1120–1135.
19. Salvatori N., **Alberti G.**, Onno M., Peressotti A. (2022) Does Fluctuating Light Affect Crop Yield? A Focus on the Dynamic Photosynthesis of Two Soybean Varieties. *Frontiers in Plant Science*, 13: 862275.
20. Cazzolla Gatti R., Reich P.B., Gamarra, J.G.P., Crowther T., Hui C., Morera A., ... **Alberti G.**, ... Liang J. (2022) The number of tree species on Earth. *Proceedings of the National Academy of Sciences (PNAS)*, 119 (6): e2115329119.
21. Salvatori N., Carteni F., Giannino F., **Alberti G.**, Mazzoleni S., Peressotti A. (2022) A System Dynamics approach to model photosynthesis at leaf level under fluctuating light. *Frontiers in Plant Science*, 12: 787877.
22. Vuerich M., Braidotti R., Sivilotti P., **Alberti G.**, Casolo V., Braidot E., Boscutti F., Calderan A., Petrusa E. (2021) Response of Merlot grapevine to drought is associated to adjustments of growth and nonstructural carbohydrates allocation in above and underground organs. *Water*, 13: 2336.
23. Salvatori N., **Alberti G.**, Muller O., Rascher U., Peressotti A. (2021) A low-cost automated growth chamber system for continuous measurements of gas exchange at canopy scale in dynamic conditions. *Plant Methods*, 17: 69.
24. Pellegrini E., Boscutti F., **Alberti G.**, Casolo V., Contin M., De Nobili M. (2021) Stand age, degree of encroachment and soil characteristics modulate changes of C and N cycles in dry grassland soils invaded by the N<sub>2</sub>-fixing shrub *Amorpha*. *Science of the Total Environment*. 792: 148295.
25. Palandrani C., Motta R., Cherubini P., Curovic M., Dukic V., Tonon G., Ceccon C., Peressotti A., **Alberti G.** (2021) Evidence for a long-term increase in tree growth and intrinsic water use efficiency in three old-growth forests in Bosnia-Herzegovina and Montenegro. *iForest*, 14 : 53-60.
26. Bayranvand M., Akbarinia M., Jouzani G.S., Gharechahi J., **Alberti G.** (2021) Dynamics of humus forms and soil characteristics along a forest altitudinal gradient in Hyrcanian forest. *iForest*, 14 : 26-33.
27. Palandrani C., Battipaglia G., **Alberti G.** (2020) Influence of tree species richness on tree growth and intrinsic water use efficiency after drought in tree plantations in North-eastern Italy. *European Journal of Forest Research*, 139 : 869-877.
28. Genesio L., Bright R., **Alberti G.**, Peressotti A., Delle Vedove G., Incerti G., Toscano P., Rinaldi M., Muller O., Miglietta F. (2020) A Chlorophyll-deficient, highly reflective soybean mutant: radiative forcing and yield gaps. *Environmental Research Letters*, 15: 074014
29. Boscutti F., Pellegrini E., Casolo V., de Nobili M., Buccheri M., **Alberti G.** (2020) Cascading effects from plant to soil elucidate how the invasive *Amorpha fruticosa* L. impacts dry grasslands. *Journal of Vegetation Science*, 31 : 667-677.
30. Zohner C.M., Lidong M., Renner S.S., Svenning J.C., Vitasse Y., Benito B.M., Ordonez A., Baumgarten F., Bastin J.F., Sebald V., Reich P.B., Liang J., Nabuurs G.J., de-Miguel S., **Alberti G.**, Fernandez C.A., et al. (2020) Late-spring frost risk between 1959 and 2017 decreased in North America but increased in Europe and Asia. *Proceedings of the National Academy of Sciences (PNAS)*, 117: 12192–12200.
31. Pinto F., Celesti M., Acebron K., **Alberti G.**, Cogliati S., Colombo R., Juszczak R., Matsubara S., Miglietta F., Palombo A., Panigada C., Pignatti S., Rossini M., Sakowska K., Schickling A., Schüttemeyer D., Strozecki M., Tudoroiu M., Rascher U. (2020) Dynamics of sun-induced chlorophyll fluorescence and reflectance to detect induced variations in photosynthetic efficiency. *Plant, Cell and Environment*, 43: 1637-1654.
32. Della Longa G., Boscutti F., Marini L., **Alberti G.** (2020) Coppicing and plant diversity in a lowland wood remnant in North-East Italy. *Plant Biosystems*, 154: 173-180.

33. Palandrani C., **Alberti G.** (2020) Tree derived soil carbon is enhanced by tree species richness and functional diversity. *Plant & Soil*, 446: 457-469.
34. Kooch Y., Moghimian N., **Alberti G.** (2020) C and N cycle under beech and hornbeam tree species in the Iranian oldgrowth forests. *Catena*, 187
35. Ostrogović Sever M.Z., **Alberti G.**, Delle Vedove G., Marjanović H. (2019) Temporal Evolution of Carbon Stocks, Fluxes and Carbon Balance in Pedunculate oak Chronosequence under Close-To-Nature Forest Management. *Forests*, 10: 814-839.
36. Steidinger B.S., Crowther T.W., Liang J., Van Nuland M.E., Werner G.D.A., ..., **Alberti G.**, ... Peay K.G. (2019). Climatic controls of decomposition drive the global biogeography of forest tree symbioses. *Nature*, 569 : 404-413
37. Spielmann F.M., Kitz F., Hammerle A., Gerde K., **Alberti G.**, Delle Vedove G., Ibrom A., Karl T., Kolle O., Migliavacca M., El-Madany T.S., Moreno G., Peressotti A., Wohlfahrt G. (2019) Gross primary productivity of four European ecosystems constrained by joint CO<sub>2</sub> and COS flux measurements. *Geophysical Research Letters*, 46
38. Noumonvi K.D., Ferlan M., Eler K., **Alberti G.**, Peressotti A., Cerasoli S. (2019) Estimation of carbon fluxes from eddy covariance data and satellite-derived vegetation indices in a karst grassland (Podgorski Kras, Slovenia). *Remote Sensing*, 11 : 649-670.
39. Sakowska K., MacArtur A., Gianelle D., Dalponte M., **Alberti G.**, Gioli B., Miglietta F., Pitacco A., Meggio F., Fava F., Julitta T., Rossini Micol, Rocchini D., Vescovo L. (2019) Assessing across-scale optical diversity and productivity relationships in grasslands of the Italian Alps. *Remote Sensing*, 11 : 614-629.
40. Degu A., Hochberg U., Wong D.C.J., **Alberti G.**, Lazarovitch N., Peterlunger E., Castellarin S.D., Herrera J.C., Fait A. (2019) Swift metabolite changes and leaf shedding are milestones in the acclimation process of grapevine under prolonged water stress. *BMC Plant Biology*, 19 : 69
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Udine, 29/06/2024

Autorizzo il trattamento dei miei dati personali ai sensi del Dlgs 196 del 30 giugno 2003 e dell'art. 13 GDPR