

Personal contact information:

Prof. Dr. PhD (Msc.) Giorgio Alberti
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33100 Udine, Italy
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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

Work experience

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:

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

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German	A2	A2	A1
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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

- 2024 – now “Ecological planning of forest resources” (in Italian, 6 ECTS), University of Udine, Italy. 6th semester).
- 2024 – now “Silviculture and Forest Mensuration” (in Italian, 6 ECTS), University of Udine, Italy. 5th semester).
- 2010 – 2024 “Silviculture and Forest Management” (in Italian, 12 ECTS), University of Udine, Italy (5th semester).
- 2021 – 2023 “Forestry” (in English, 6 ECTS), Free University of Bolzano, Bolzano, Italy (6th semester).
- 2008 – 2009 Undergraduate course: “Principles of Silviculture” (in Italian, 6 ECTS), University of Udine, Italy (3rd semester).

Graduate student program:

- 2019 – now “Laboratory of Environmental Sensors” (in Italian, 6 ECTS), University of Udine, Italy (3th 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 (2th 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);

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Universitat 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, Deft (Tu-Deft); Universitat 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); Universitat 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); Universitat 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); Universitat 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. “Effetto dell’abbandono della gestione forestale sugli stock di carbonio”. Laureando: Enrico Gianardi; Supervisor: G. Alberti; co-supervisor: A. Tomao, N. Piazza. Corso di Laurea in Scienze per l’Ambiente e la Natura. A.A. 2023/2024
2. “Performance produttive e qualità dei fusti di alcuni cloni di pioppo in Friuli Venezia Giulia”. Laureando: Eugenio Cucchini. Supervisor: G. Alberti; co-supervisor: A. Tomao. Corso di Laurea in Scienze Agrarie. A.A. 2023/2024

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3. "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
4. "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
5. "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
6. "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
7. "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
8. "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
9. "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
10. "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
11. "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
12. "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
13. "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
14. "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
15. "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
16. "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
17. "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
18. "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
19. "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
20. "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
21. "Le pinete del carso triestino". Laureando: Gianluca Barnabà. Supervisor: G. Alberti. Corso di Laurea in Agraria, curriculum Montano-Forestale. A.A. 2016-2017

22. "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
23. "Progettazione di un soprassuolo arboreo di collegamento tra due boschi planiziali a Muzzana del Turgnano (UD)". Laureando: Mattia Zanotel. Supervisor: G. Alberti. Corso di Laurea in Scienze per l'Ambiente e Natura. A.A. 2016-2017
24. "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
25. "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.
26. "Variabilità spaziale dei flussi e degli stock di carbonio nel suolo in due ecosistemi agricoli". Laureando: Emanuela Luzi. 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.
27. "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.
28. "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.
29. "L'esperimento 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.
30. "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.
31. "Gestione forestale e rinnovazione in acero-frassineti nel comune di Taipana". Laureando: Nicolò Francescatto. Supervisor: G. Alberti. Corso di Laurea in Scienze per l'Ambiente e la Natura. Università di Udine. A.A. 2014-2015.
32. "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.
33. "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.
34. "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.
35. "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.
36. "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.
37. "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.
38. "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.
39. "Gestione forestale e rinnovazione in acero-frassineti nel Comune di Taipana". Laureando: Nicolò Francescatto. Supervisor: G. Alberti. Corso di Laurea in Scienze e Tecnologie Agrarie. Università di Udine. A.A. 2012-2013.

40. "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.
41. "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.
42. "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.
43. "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.
44. "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
45. "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.
46. "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.
47. "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
48. "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.
49. "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.
50. "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.
51. "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.
52. "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.
53. "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.
54. "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.
55. "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.

56. "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.
57. "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.
58. "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.
59. "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.
60. "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. "Applicazione di tecniche di telerilevamento per la stima di parametri dendro-auxometrici a diversa scala in popolamenti forestali". PhD student: Luca Cadez; Supervisor: G. Alberti. Corso di Dottorato in Ambiente e Vita, Università di Trieste. A.A. 2023/2024.
2. "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).
3. "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).

CV Giorgio Alberti

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 ¹	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
2024 – now	Empowering the Academic Cooperation between Italy and Africa for fostering the quality and effectiveness of the higher education systems in a mutual learning environment (UNITAFRICA)	NA	Iniziative Transnazionali in materia di istruzione	RUC	University of Brescia	€ 2.407.557	€ 53.522
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	RE	Rural Development Plan, Friuli Venezia Giulia,	RUC	Danta Legnami, Italy	€ 258.049	€ 86.399

GIORGIO ALBERTI CV

	in Eastern Alps (PRI.FOR.MAN.)		Italy				
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 introduction of improved pyrolytic clean cooking systems in north-west and east regions of Burundi	O	World Bank	SC	Starter s.r.l., Padova, Italy	-	€ 20.000
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	RE	Regional Government of Friuli Venezia Giulia, Italy	PI	University of Udine, Italy	€ 142.024	€ 142.024

GIORGIO ALBERTI CV

	Friuli Venezia Giulia (ARBOPLAN)						
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 for old beech coppices	RE	Regional Government of Friuli Venezia Giulia, Italy	PI	University of Udine, Italy	€ 15.000	€ 15.000

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

Period	Name	Funding type ¹	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

GIORGIO ALBERTI CV

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 - Mapping Alpine forests using LiDAR data	RE	Regional Government of Friuli Venezia Giulia, Italy	Young scientist within University of Udine research unit	University of Udine, Italy	€ 75.500	€ 75.500
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	EU	VI Framework Programme	Young scientist within University of	Natural Environment	€ 15.920.000	€ 278.000

GIORGIO ALBERTI CV

	influence on the European greenhouse gas balance			Udine research unit	Research Council - Centre for Ecology & Hydrology, UK		
2006 – 2010	CARBOITALY - The Italy net for measuring forest and agriculture carbon sinks and developing a system to predict the absorption of greenhouse gases by terrestrial ecosystems	NA	Italy Ministry for Research	Young scientist within University of Udine research unit	University of Tuscia, Italy	€ 4.235.000	€ 409.000

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

Year	Project	Funding agency ¹	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	EU	EAC-A02-2019-1	RUC	UNIVERSITE PARIS XII VAL	€ 4.998.125	€ 883.369	80 / 100

GIORGIO ALBERTI CV

	Society: establishment and actions of a European University aiming at addressing the challenges faced by Southern Europe from sustainable and innovative perspectives				DE MARNE, Francia			
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:

2024	Guest Editor special issue “Tree Growth in Relation to Climate Change”, Forests
Since 2021	Editorial Board, Forests
2017-2018	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 (https://ejpsoil.eu/)
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 (https://ejpsoil.eu/)
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

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 34** (source: Scopus, last update: 17/02/2025). Since 2005, I have authored/co-authored **124 papers** distributed among international journals (94), national journals (15), book chapters (13) and books (2). Journal papers have been **cited a total of 4829 times**; the most cited paper has **1022** citations.

Publications on ISI/SCOPUS journals:

1. Panico S.C., **Alberti G.**, Foscari A., Sciabbarrasi G.L., Tomao A., Incerti G. (2025) Bacterial and Fungal Communities Respond Differently to Changing Soil Properties Along Afforestation Dynamic. *Microbial Ecology*, 88 : 2
2. Mo L., Crowther T., Maynard D., ... **Alberti G.**, ..., Ortiz-Malavasi E. (2024) The global distribution and drivers of wood density and their impact on forest carbon stocks. *Nature Ecology and Evolution*, 8 : 2195-2212
3. Trotta G., Cadez L., Boscutti F., Vuerich M., Asquini E., Boscarol G., Cingano P., Azzani G., Pischedda S., Tomao A., **Alberti G.** (2024) Interpreting the shifts in forest structure, plant community composition, diversity, and functional identity by using remote sensing-derived wildfire severity. *Fire Ecology*, 20 : 94.
4. Fasihi M., Portelli B., Cadez L., Tomao A., Falcon A., **Alberti G.**, Serra G. (2024) Assessing ensemble models for carbon sequestration and storage estimation in forests using remote sensing data. *Ecological Informatics*, 83 : 102828.
5. Bastos Campos F., Callesen T.O., **Alberti G.**, Montagnani L., Tagliavini M., Zanotelli D. (2024) Meteorological Drivers of Vineyard Water Vapor Loss and Water use Efficiency During dry Days. *IEE Transactions on Agrifood Electronics*. doi : 10.1109/TAFE.2024.3466552
6. Cadez L., Tomao A., Giannetti F., Chirici G., **Alberti G.** (2024) Mapping Forest Growing Stock and Its Current Annual Increment Using Random Forest and Remote Sensing Data in Northeast Italy. *Forests*, 15 : 1356.
7. Hordijk I., Bialic-Murphy L., ..., **Alberti G.**, ..., Crowther T. (2024) Dominance and rarity in tree communities across the globe: Patterns, predictors and threats. *Global Ecology and Biogeography*, 33: e13889
8. Zou Y., Zohner C.M., ..., **Alberti G.**, ..., Crowther T. (2024) Positive feedbacks and alternative stable states in forest leaf types. *Nature Communications*, 15: 4658
9. 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.
10. 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.
11. 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
12. 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.
13. 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.
14. Cadez L, Giannetti F, De Luca A, Tomao A, Chirici G, **Alberti G** (2023). A WebGIS tool to support forest management at regional and local scale. *iForest* 16: 361-367.

15. 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>
16. 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
17. 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.
18. 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
19. 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
20. 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
21. 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
22. 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
23. Mahmoodi M.B., Kooch Y., **Alberti G.** (2023) Tree species is more effective than season dynamics on topsoil function and CO₂ emissions in the temperate forests. *Ecological Research*, 38:134–145.
24. 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.
25. 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
26. Foscari A., **Alberti G.**, Zotti M., Incerti G. (2022) Species-specific DNA distribution in spruce-beech forest soil. *Environmental DNA*, 4:1120–1135.
27. 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.
28. 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.
29. 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.
30. 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.
31. 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.
32. 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 N₂-fixing shrub *Amorpha*. *Science of the Total Environment*. 792: 148295.
33. 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.

34. 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.
35. 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.
36. 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
37. 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.
38. 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.
39. 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., Strozec 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.
40. 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.
41. Palandrani C., **Alberti G.** (2020) Tree derived soil carbon is enhanced by tree species richness and functional diversity. *Plant & Soil*, 446: 457-469.
42. Kooch Y., Moghimian N., **Alberti G.** (2020) C and N cycle under beech and hornbeam tree species in the Iranian oldgrowth forests. *Catena*, 187
43. 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.
44. 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
45. 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 CO₂ and COS flux measurements. *Geophysical Research Letters*, 46
46. 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.
47. 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.
48. 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
49. Ventura M., **Alberti G.**, Panzacchi P., Delle Vedove G., Miglietta F., Tonon G. (2019) Biochar mineralization and priming effect in a poplar short rotation coppice from a three-year field experiment. *Biology and Fertility of Soils*, 55 : 67-78.
50. Anić M., Ostrogović M.Z., **Alberti G.**, Balenović I., Paladinić E., Peressotti A., Tijan G., Večenaj Z., Vuletić D., Marjanović H. (2018) Eddy Covariance vs. Biometric Based Estimates of Net Primary

GIORGIO ALBERTI CV

- Productivity of Pedunculate Oak (*Quercus robur* L.) Forest in Croatia during Ten Years. *Forests*, 9: 764-799.
51. Gerhards M., Schlerf M., Rasche U., Undelhoven T., Juszczak R., **Alberti G.**, Miglietta F., Inoue Y. (2018) Analysis of Airborne Optical and Thermal Imagery for Detection of Water Stress Symptoms. *Remote Sensing*, 10 : 1139-1162.
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GIORGIO ALBERTI CV

Udine, 17/02/2025

A handwritten signature in black ink, appearing to read 'G. Alberti', with a long horizontal stroke extending to the right.

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