

SARA GARGIULO

Università di Udine

Via delle Scienze 91, 33100 Udine, Italy

sara.gargiulo@uniud.it

EDUCAZIONE

01/11/2021 – 31/10/2024

Dipartimento di Scienze della Vita.

Università degli Studi di Trieste

PhD Environmental and Life Science – Plant

Ecophysiology

Thesis title: The role of carbon allocation in plants acclimation and response to abiotic stress.

Supervised by Prof. Valentino Casolo and Prof. Andrea Nardini.

01/10/2019 – 10/06/2021

Dipartimento di Scienze
AgroAlimentari Ambientali e Animali.

Università degli Studi di Udine

Laurea Magistrale in Analisi e Gestione dell'Ambiente

Thesis title: The effect of snow cover on non-structural carbohydrates allocation in *Juniperus communis*

Voto: 110/110 cum laude

Dipartimento di Scienze
AgroAlimentari Ambientali e Animali.

Università degli Studi di Udine

Laurea Triennale in Scienze per l'Ambiente e la Natura

Thesis title: Restricted O₂ consumption in pea roots induced by hexanoic acid in waterlogged soils

Supervised by Prof. Valentino Casolo and Prof. Marco Zancani

Voto: 91/110

ESPERIENZE PROFESSIONALI ACCADEMICHE

Assegno di Ricerca Università di Udine | Nov 2024 – Oggi Project: *Back to the future: Retrospective and prospective dendro genomic insights in silver fir adaptation to face the climate crisis – REACT* Funded by NextGenerationEU – PNRR M4.C2.1.1 – PRIN 2022 Supervisor: Prof. Valentino Casolo

Borsa di Ricerca Università di Udine | Lug 2021 – Ott 2021 Project: *Evaluation of morphological and physiological traits of plants to support biodiversity management in agricultural and rural environments* Supervisor: Prof. Valentino Casolo

Assistenza alla didattica Università degli studi di Udine | a.a. 2021/2022, 2024/2025 per i corsi di Morfologia e Tassonomia Vegetale, Geobotanica e Conservazione della Natura.

ALTRE ESPERIENZE PROFESSIONALI

Educatrice privata | a.a. 2019/2020, 2020/2021 Affiancamento a un ragazzo affetto da sindrome dello spettro autistico con Bisogni Educativi Speciali.

Animatrice Agenzia Free Time Udine | 2015-2019 Attività di animazione con bambini dai 2 ai 13 anni.

PUBBLICAZIONI

Documents: 7 Citations: 48 by 38 documents **h-index: 5**

Title	Journal	Year	Authors
The Relationship between Anaerobic Germination Capacity and Submergence Tolerance in Rice Seedlings	Rice	2025	Djurhuus D.L.E., Song Z., Andersen A.G., Gargiulo S. , Casolo V., Ismail A.M., Nchimbi-Msolla S., Jiménez J., Pedersen O.
Exploring the Role of Non-Structural Carbohydrates (NSCs) Under Abiotic Stresses on Woody Plants: A Comprehensive Review	Plants	2025	Nawaz A.F., Gargiulo S. , Pichierri A., Casolo V.
Snowpack permanence shapes the growth and dynamics of non-structural carbohydrates in <i>Juniperus communis</i> in alpine tundra	Science of The Total Environment	2024	Gargiulo S. , Boscutti F., Carrer M., Prendin A.L., Unterholzner L., Dibona R., Casolo V.
Restricted O ₂ consumption in pea roots induced by hexanoic acid is linked to depletion of Krebs cycle substrates	Physiologia Plantarum	2023	Casolo V., Zancani M., Pellegrini E., Filippi A., Gargiulo S. , Konnerup D., Morandini P., Pedersen O.
Stem photosynthesis contributes to non-structural carbohydrate pool and modulates xylem vulnerability to embolism in <i>Fraxinus ornus</i> L.	Environmental and Experimental Botany	2023	Natale S., Tomasella M., Gargiulo S. , Petruzzellis F., Tromba G., Boccato E., Casolo V., Nardini A.
Transient Effects of Snow Cover Duration on Primary Growth and Leaf Traits in a Tundra Shrub	Frontiers in Plant Science	2022	Unterholzner L., Prendin A.L., Dibona R., Menardi R., Casolo V., Gargiulo S. , Boscutti F., Carrer M.

Title	Journal	Year	Authors
Stem photosynthesis affects hydraulic resilience in the deciduous <i>Populus alba</i> but not in the evergreen <i>Laurus nobilis</i>	Water (Switzerland)	2021	Trifilò P., Natale S., Gargiulo S. , Abate E., Casolo V., Nardini A.

PARTECIPAZIONE A CONVEGNI

Conference	Location & Date	Presentation Type	Title	Authors
XII SBI International Plant Science Conference	Gorizia, 3-6 September 2025	Poster	The core of the trees: where carbon reserves meet the dendrochronology	Gargiulo S. , Mancinelli R., Petrusa E., Carrer M., Frigo D., Casolo V.
XIM6 – Xylem International Meeting	Seville, 18–20 March 2025	Oral Presentation	Hydraulic acclimation strategy of different ecotypes of <i>Quercus ilex</i> and <i>Quercus pubescens</i> in Temperate and Mediterranean climate	Gargiulo S. , Trifilò P., Pichierrri A., Nardini A., Chiofalo MT., Crisafulli A., Masutti G., Francescato E., Casolo V.
XII SIBV Congress	Bari, 11–14 September 2023	Oral Presentation	Krebs cycle substrates starvation explains the decrease of O ₂ consumption induced by hexanoic acid in pea roots	Gargiulo S. , Casolo V., Zancani M., Pellegrini E., Filippi A., Konnerup D., Morandini P., Pedersen O.
Plant Biology Europe 2023	Marseille, 4–7 July 2023	Oral Presentation	Restricted O ₂ consumption in pea roots induced by hexanoic acid is linked to depletion of Krebs cycle substrates	Gargiulo S. , Casolo V., Zancani M., Pellegrini E., Filippi A., Konnerup D., Morandini P., Pedersen O.
XIM5 – Xylem International Meeting	Würzburg, 19–21 September 2022	Poster	Mild drought treatments prime the recovery from severe drought by modifying the tradeoff between non-structural carbohydrates and growth in black poplars	Gargiulo S. , Casolo V., Cavalletto S., Boscutti F., Zwieniecki M., Secchi F.

TIROCINI INTERNAZIONALI

Freshwater Biological Laboratory, University of Copenhagen. Department of Biology. Copenhagen, Denmark. 90 days, Sep – Oct 2023 and Aug – Oct 2024.

COMPETENZE TRASVERSALI

Competenze linguistiche: Conoscenza della lingua **inglese** (livello B2)

Competenze digitali: Pacchetto Microsoft Office, R software (Statistical Analysis), ImageJ