

Davide Frigo

Ph.D. in Forest Ecology

Contacts

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Address

Via Pavia 2
35142 Padova

Working Experience

Senior Lecturer – *Environmental Education*

Istituto Comprensivo Grantorto – Gazzo – San Pietro in Gu (10/2025 - 05/2026)
Via Vittorio Emanuele III, 32 – Grantorto, PD (IT)

Environmental education activities carried out within the National Programme "School and Skills" (Scuola e competenze) 2021–2027, funded by the European Social Fund Plus (ESF+). The project focused on strengthening core subject areas and spatial/environmental competencies, with particular emphasis on natural processes and understanding ecosystem functioning.

Research collaborator

TeSAF Department - University of Padova (05/2026 - present)
Viale dell'Università 16, 35020 Legnaro, PD (IT)

Scientific collaboration with the TeSAF Department within the BIRD 25–27 Project (D.RE.A.M.S.). Conducted laboratory work and used specialized software for quantitative wood anatomy analysis. Performed statistical analyses and produced high-quality data visualizations. Contributed to the writing and preparation of scientific articles.

Laboratory analyst

Faculty of Science and Engineering - Anglia Ruskin University (10/2025 - 02/2026)
East Road, Cambridge CB1 1PT (UK)

Freelance laboratory analysis and data processing in the fields of dendroclimatology and dendroanatomy. Prepared and analyzed wood samples according to dendrochronological protocols. Used specialized software for statistical analysis and high-quality data visualization. Funded by the BARIN project, Canada-Inuit Nunangat-United Kingdom Arctic Research Programme - CINUK. In collaboration with the TeSAF Department (University of Padua).

Postdoctoral Researcher

TeSAF Department - University of Padova (10/2024 - 09/2025)
Viale dell'Università 16, 35020 Legnaro, PD (IT)

Research grant in the fields of dendroclimatology and dendroanatomy. Used specialized software for statistical analysis and high-quality data visualization. Gained fieldwork experience across several European countries. Participated in international conferences and contributed to publications in leading peer-reviewed scientific journals. Supervised students and interns.

Environmental educator

Municipality of Padova - Informambiente (01/2022 - 05/2022)
Associazione Istituto Ecoambientale, Municipality of Padova, PD (IT).

Environmental education activities within the educational project "Il bosco vicino alla scuola" developed for the Municipality of Padua's sustainability education programme. The project aimed to introduce primary school students to urban wild forests, promoting understanding of their ecological functions and dynamics through interactive learning.

About

Languages

Italian Native speaker
English C1

Softwares

Office package
R
Dendro Softwares (TSAP, CDendro, Arstan, ROXAS)
GIS (QGIS)
Adobe Illustrator
ZEISS Zen

Skills

Research planning
Fieldwork and data processing
Statistical analysis
Communication
Problem-solving
Teamwork
Education and teching

Driving licence

European Cathegory B

Research Collaborator

Swiss Federal Institute for Forest, Snow and Landscape Research WSL (04/2021 - 06/2021)
Zürcherstrasse 111, CH-8903 Birmensdorf (CH)

Research grant in the field of dendroanatomy. Used ROXAS software for the quantitative analysis of wood anatomy. Conducted laboratory work, with a particular focus on preparing high-quality slides for dendroanatomical analysis.

Traineeship - Forestry research

Icelandic Forest Research (07/2020 - 09/2020)
Mógilsá, 162 Reykjavik (IS)

Studied and applied fundamental methods in dendrochronology and dendroclimatology. Participated in a range of forestry activities, including tree measurement and mapping using high-precision GPS instruments, as part of the Icelandic National Forest Inventory.

Traineeship - Forest employee and museology

Ufficio Patrimonio e Ambiente - Asiago Municipality (07/2017 - 08/2017)
Via Aprosio, 1, 36012 Asiago, VI (IT)

Supported forest and environmental management activities. Performed office-based administrative tasks, including the organisation of municipal auctions for the sale of forest plots for logging. Contributed to educational and operational activities at the Patrizio Rigoni Natural History Museum.







Education

Ph.D. in Forest ecology and Dendroclimatology L.E.R.H.

University of Padova, TeSAF Department (10/2021 - 10/2024)
Viale dell'Università, 16, 35020, Padova (IT)

Erasmus+ Traineeship - Johannes Gutenberg-Universität Mainz - DE (02/2023 – 05/2023 | 10/2023 – 02/2024)
Collaboration on Monostar project - https://www.monostar.org/

MSc in Forest and Environmental Sciences

University of Padova (10/2018 - 02/2021)
Via 8 Febbraio, 2, 35122 Padova (IT)

Erasmus+ Studio- *Swedish University of Agricultural Sciences* (SLU) - SE (20/01/2019 – 05/06/2019)
Erasmus+ Tirocinio- Icelandic Forest Research - IS (26/07/2020 – 23/09/2020)

BSc in land use planning and andscape conservation

University of Padova (10/2015 - 10/2018)
Via 8 Febbraio, 2, 35122 Padova (IT)

Publications

Kölzer, A., Frigo, D., Martinez del Castillo, E., Reinig, F., Esper, J., Ingo Heinrich, I., Neuwirth, B., Baliva, M., Piovesan, G., Ziaco, E. (2026) Impact of canopy disturbances on climate sensitivity of old-growth beech (Fagus sylvatica L.) forests. Dendrochronologia 97, 126537

Mantovani, E., Prendin, A. L., Brunetti, M., Frigo, D., Dibona, R., Carrer, M. (2026) Phenological Shifts in Wood Formation Tracked by Frost Rings Across Two Centuries. Global Change Biology. 32(2). https://doi.org/10.1111/gcb.70745

Römer, P., Wieland, A., Torbenson, M. C., Reinig, F., Ziaco, E., Frigo, D., Greule, M., Urban, O., Čáslavský, J., Pernicová, N., Trnka, M., Carrer, M., Büntgen, U., Keppler, F., & Esper, J. (2025). Covariance and climate signals among state-of-the-art tree-ring proxies. Quaternary Science Reviews, 355, 109270. https://doi.org/10.1016/j.quascirev.2025.109270

Carrer, M., Dibona R., Frigo D., Gorlanova L., Hantemirov R., Unterholzner L., Normand S., Treier U. A., & Prendin A. L. Common juniper, the oldest nonclonal woody species across the tundra biome and the European continent. Ecology 106, e4514 (2025). https://doi.org/10.1002/ecy.4514C

Frigo, D., Römer, P., Unterholzner, L., Zimmer-Zachmann, H., Esper, J., Carrer, M., & Ziaco, E. (2024). Review of embedding and non-embedding techniques for quantitative wood anatomy. Dendrochronologia 88, 126241. https://doi.org/10.1016/j.dendro.2024.126241

Frigo, D., Eggertsson, Ó., Prendin, A. L., Dibona, R., Unterholzner, L., & Carrer, M. (2023). Growth form and leaf habit drive contrasting effects of Arctic amplification in long-lived woody species. Global Change Biology, 20(29), 5896-5907. https://doi.org/10.1111/gcb.16895

Puchi, P. F., Khomik, M., Frigo, D., Arain, M. A., Fonti, P., von Arx, G., & Castagneri, D. (2023). Revealing how intra- and inter-annual variability of carbon uptake (GPP) affects wood cell biomass in an eastern white pine forest. Environmental Research Letters, 18(2), 024027 (11 pp.). https://doi.org/10.1088/1748-9326/acb2df

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Padova, 21/04/2026

Davide Frigo

