

CURRICULUM VITAE DANIELA FARINELLI

Daniela Farinelli graduated in Agricultural Science with full marks in 1993, at the Faculty of Agriculture - University of Perugia (Italy). In 2001 she was doctorate at the Faculty of Agriculture of the University of Perugia. From 1996 up to 2009, she worked at the University of Perugia as Ph. D. student, as scholarship holder and contract worker. From October 2009 to January she was Assistant Professor, and from January 2024 she is Associate Professor at the Department of Agricultural, Food and Environmental Sciences of the University of Perugia, in which she teaches subjects regarding tree fruit cultivation, fruit quality and forestry. In the 2023, she obtained the qualification of full professor.

She has acted as scientific coordinator of several research projects mainly on hazelnut and olive trees, funded by either public institutions or private companies such as:

- 2011-2015 national research project on "Sviluppo del vivaismo e della piattaforma varietale corilicola VI.VA.CO" funded by MiPAAF;
- 2015-2016 regional project on "Innovazione delle tecniche colturali per la sostenibilità e redditività della coltivazione dell'olivo e dei fruttiferi "minori" in Umbria" funded by Fondazione Cassa di Risparmio di Perugia;
- 2015 - 2018 international project on "BeFOre – Bioresources For Oliviculture" (Horizon 2020, MSCA – Research and Innovation Staff Exchange Rise 2014).
- 2019 – 2025 regional project on "Convenzione per la costituzione di un nocciolo sperimentale presso l'azienda Sasse Rami di Ceregnano (Ro) gestita direttamente dall'agenzia veneta per l'innovazione nel settore primario" Veneto Agricoltura;
- 2019-2025 project on hazelnut "Comparison of 4 cultivars and 3 plant materials (own-rooted; micropropagated and grafted)" supported by Vivai Piante Battistini Società Agricola S.S. .
- 2020-2022 "EU project 101007623 - INTACT H2020-MSCA-RISE-2020 (INnovation in Truffle cultivation, preservAtion, proCessing and wild truffle resources management)
- 2020-2030 national project on "Comparison of hazelnut cultivars in different environments" supported by Ferrero Trading Lux S.A.

Her research work has involved the following topics:

a) optimisation of cultivation systems for fruit trees species (hazelnut, olive); b) propagation (cuttings and grafting) of fruit tree species (hazelnut, olive); c) genetic and clonal selection of new varieties; d) selection of pollinators and artificial pollination in olive and hazelnut trees; e) cultivation systems and crop intensification; f) mitigation of summer abiotic stress through grafted plants and/or biostimulants/corrobtorants; g) optimisation of water use in hazelnut trees; h) use of biostimulants in olive tree nurseries.

He has collaborated with various research institutes, both nationally and internationally, such as the University of Talca in Chile and the University of Western Paraná in Brazil.

She is Marie Curie Researcher with project BeFOre – Bioresources For Oliviculture" Progetto UE (Horizon 2020, MSCA – Research and Innovation Staff Exchange Rise at INTA San Juan – Argentina from March 1st 2016 to March 17th 2016 and from July 20th to August 1st 2018.

Visiting professor at UNIOESTE Paraná State – Brazil teaching lessons on the "physiology of fruit species", for the Program de Pos - Graduação em Agronomia da Univesidade Estadual do Oeste do Paraná, Campus de marechal Cândido Rondon, Estado do Paraná, Brazil, in 2019, 2021, 2023 and 2025.

She has given talks at national and international scientific meetings. She is author of more than 150 papers and reports.

She is a breeder of new hazelnut varieties (Tonda Franciscana®, Tonda Etrusca®, Volumnia I, Volumnia II, Volumnia III and Volumnia IV).

She has been referee of the following scientific journal: HortScience; Biosystems Engineering; HortTechnology; Scientia Horticulturae; Spanish Journal of Agricultural Research; Journal of Agricultural and Food Chemistry; Journal of the Serbian Chemical Society; Sensors; Frontiers in Plant Science.

She is a member of the Italian Horticultural Society and the International Society for Horticultural Science.

She is Topic editor of “Frontiers in Plant Science, Plant Abiotic Stress, Research Topics: Biochemical and Physiological Insights into Plant Adaptation and Resilience Under Abiotic Stresses. <https://www.frontiersin.org/research-topics/70026/biochemical-and-physiological-insights-into-plant-adaptation-and-resilience-under-abiotic-stresses>”

She is Editorial Board Member of Horticulturae, an international peer-reviewed open access journal published monthly online by MDPI. She is Special Issue Editor on "Postharvest Physiology and Technology of Horticultural Crops" of Agriculture (ISSN 2077-0472) section "Agricultural Technology".

Awards:

October 2015 “Ferrero hazelnut award” 2nd prize awarded for project “New cultivation system for more profitable and sustainable Hazelnut growing”.

List of the publications:

- In press Portarena S., Tunno I., Ahmed S.W., Brugnoli E., Traini C., Facchin S.L., Rende A., Farinelli D.. Grafting effects on tree-ring traits and abiotic stress resilience in Mediterranean hazelnut cultivation under climate change scenarios. XI International Congress on Hazelnut, Beijing – China, August 4-8 2025. ACTA HORTICULTURAE
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- In press Traini C., Facchin S.L., de Vargas R.J., Villa F., Sánchez-Piñero M., Meneghini M., Famiani F., Portarena S., Zadra C., Dradi G., Farinelli D. Vegetative development, productivity and quality of the fruits of grafted, own-rooted and micropropagated plants from transplanting to the fifth year in field. XI International Congress on Hazelnut, Beijing – China, August 4-8 2025. ACTA HORTICULTURAE
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- In press Facchin S.L. , de Vargas R.J., Traini C., Villa F., Portarena S., Sánchez-Piñero M., Farinelli D. First results of artificial pollination by hand sprayer in hazelnut in Italy. XI International Congress on Hazelnut, Beijing – China, August 4-8 2025. ACTA HORTICULTURAE
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- In press Farinelli D., Facchin S.L., Traini C., Balducci M., Celano G., Altieri G., Curcio D., Tedesco A., Botta R., Prezzi E., Valentini N., De Gregorio T., Todeschini C.. Performance assessment of new versus traditional varieties. First results of field trials located in three different areas of Italy. XI International Congress on Hazelnut, Beijing – China, August 4-8 2025. ACTA HORTICULTURAE
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- In press Farinelli D., New cultivation models for a sustainable hazelnut orchard management. I International Symposium on Temperate Tree Nuts: from Agroecologically Sustainable to Organic Production, Naples (Italy); August 25-31 2025. ACTA HORTICULTURAE
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- In press de Vargas R.J., Traini C., Facchin S.L., Rende A., Cinosi N., Villa F., Vinci A. , Brigante R., Farinelli D.. Heat stress mitigation by different biostimulants on grafted and micropropagated hazelnuts. I International Symposium on Temperate Tree Nuts: from Agroecologically Sustainable to Organic Production, Naples; August 25-31 2025. ACTA HORTICULTURAE

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- In press Ahmed S.W., Cinosi N., Traini ., Brugnoli E., Famiani F., Farinelli D., Portarena S. Comparative assessment of vegetative and productive performance of Moraiolo and Maurino olive cultivars in central Italy. IX International Olive Symposium. Davis, CA (United States of America). September 10-14, 2023. ACTA HORTICULTURAE
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- 2025 Nicola Cinosi; Mona Mazeh; Alessandro Pilli; Antonio Rende; Daniela Farinelli; Claudio Di Vaio; Adolfo Rosati; Franco Famiani. Agronomic Characteristics of Several Italian Olive Cultivars and Evaluation for High-Density Cultivation in Central Italy. Horticulturae 2025, Volume 11, Issue 9, 1147
Co-authors
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- 2025 Portarena S, Saurer M, Brugnoli E, Farinelli D and Cherubini P (2025) Drought response strategies of Arbequina, Arbosana and Koroneiki olive cultivars revealed by ring growth, wood anatomy and d¹³C dynamics. Front. Plant Sci., 04 September 2025 Sec. Crop and Product Physiology Volume 16 - 2025 | <https://doi.org/10.3389/fpls.2025.1623127>
Co-authors
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- 2025 Nicola Cinosi, Franco Famiani, Alessandro Pilli, Leen Almadi, Luca Regni, Daniela Farinelli, Claudio Di Vaio, Maurizio Micheli. Nitrogen foliar treatments as a tool to improve in vitro shoot regeneration in olive. HORTSCIENCE 60(8):1326–1328. 2025. <https://doi.org/10.21273/HORTSCI18578-25>
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- 2025 Rodrigo José de Vargas; Simona Lucia Facchin; Chiara Traini; Nicola Cinosi; Fabiola Villa; Silvia Portarena; Marta Sánchez Piñero; Mauro Brunetti; Angela Baiocco; Matteo Stabile; Daniela Farinelli. The Efficiency of Artificial Pollination on the Hazelnut ‘Tonda Franciscana®’ Cultivar and the Xenia Effects of Different Pollinizers. Horticulturae. Horticulturae 2025, 11, 724. <https://doi.org/10.3390/horticulturae11070724>
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- 2025 Brigante, R.; Marconi, L.; Facchin, S.L.; Famiani, F.; Sánchez Piñero, M.; Portarena, S.; De Vargas, R.J.; Villa, F.; Traini, C.; Vinci, A.; Radicioni, F.; Farinelli D. Laser Scanning for Canopy Characterization in Hazelnut Trees: A Preliminary Approach to Define Growth Habitus Descriptor. Agriculture 2025, 15, 1251. <https://doi.org/10.3390/agriculture15121251>
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- 2025 Ritter, G.; de Vargas, R.J.; Farinelli, D.; Cinosi, N.; Traini, C.; Facchin, S.L.; Hiromi Kiahara, L.; da Silva, D.F.; Portarena, S.; Villa, F. Application of Azospirillum brasilense and Humic Substances Improves the Nursery Quality of Olive Seedlings in Pots. Horticulturae 2025, 11, 48. <https://doi.org/10.3390/horticulturae11010048>
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- 2024 Portarena, S.; Proietti, S.; Moscatello, S.; Zadra, C.; Cinosi, N.; Traini, C.; FARINELLI, D. Effect of Tree Density on Yield and Fruit Quality of the Grafted Hazelnut Cultivar ‘Tonda Franciscana®’. FOODS 2024, 13, 3307. <https://doi.org/10.3390/foods13203307>
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- 2024 Vinci A., Brigante R., Traini C., Facchin S.L., S. Portarena, M. Sánchez-Piñero, FARINELLI D., Monitoring of Water Requirement Using Thermal Unmanned Aerial Vehicle (UAV) on Intensive Hazelnut Orchard. Pag. 70-73. 10th International Conference on SENSORS AND ELECTRONIC INSTRUMENTATION ADVANCES (SEIA' 2024), 25-27 September 2024, Ibiza (Balearic Islands), Spain. <https://dx.doi.org/10.13140/RG.2.2.36670.50243>
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- 2024 Almadi, L., Frioni, T., FARINELLI, D., Paoletti, A., Cinosi, N., Rosati, A., ... & Famiani, F.. Dodine an effective alternative to copper for controlling Venturia oleaginea, the causal agent of pea-cock eye disease, in highly infected olive trees. FRONTIERS IN PLANT SCIENCE, 15, 1369048.
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- 2024 Grisafi F., Tombesi S, FARINELLI D., Costes E., Durand J-B., Boudon F. Modelling the architecture of hazelnut (*Corylus avellana*) Tonda di Giffoni over two successive years. IN *SILICO PLANTS*, diae004, <https://doi.org/10.1093/insilicoplants/diae004>
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- 2024 Portarena S., FARINELLI D., Famiani F., Cinosi N., Traini C., Rezaei N., Brugnoli E. Differential tolerance to summer stress conditions in two olive cultivars using the dendro-isotopic approach. *DENDROCHRONOLOGIA*, Volume 84, 126182 <https://doi.org/10.1016/j.dendro.2024.126182>
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- 2024 Cinosi N., Moriconi F., FARINELLI D., Marchionni D., Lodolini E.M., Rosati A, Famiani F. , Effects of summer pruning on the water status and physiology of olive trees and on fruit characteristics and oil quality. *SCIENTIA HORTICULTURAE*, Volume 324, 2024, 112612, ISSN 0304-4238, <https://doi.org/10.1016/j.scienta.2023.112612>.
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- 2023 Vinci A., Traini C., Portarena S., FARINELLI D. Assessment of the mid - season crop coefficient for the evaluation of water demand of young, grafted hazelnut trees in a high-density orchards. *WATER*, special issue Model-Based Irrigation Management. Volume 15, Issue 9, 1683. <https://doi.org/10.3390/w15091683>
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- 2023 Grisafi F., Tombesi S., Farinelli D., Boudon F., Durand J.B., Costes E.
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- 2023 Pasqualotto, G., Carraro, V., Suarez Huerta, E., FARINELLI, D., Cristofori, V. and Anfodillo, T. . Radial stem growth dynamics and leaf emergence in *Corylus avellana* L. differ from *Corylus colurna* L. *Acta Hort.* 1379, 291-296
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- 2023 FARINELLI D., Bernacchia C., Brugnoli E., Portarena S., Zadra C. Influence of pollinizers on fruit quality characteristics in hazelnut cultivar "Tonda Franciscana". *Proc. X International Symposium on Hazelnut, Corvallis (USA), ACTA HORTICULTURAE*. 1379, 199-206
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- 2023 Castro Garcia S., FARINELLI D., Ferguson L., Gil-Ribes J.A. , Famiani F. Olive harvesting. In: *The Olive: Botany and Production*. Fabbri A., Baldoni L., Caruso T., Famiani F. - Editors. CABI, Wallingford, Oxfordshire, UK.
- 2023 Cinosi N., Portarena S., Almadi L., Berrettini A., Torres M., Pierantozzi P., Villa F., Galletti A., Famiani F., FARINELLI D.

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- 2023 Grisafi, F., FARINELLI, D., Costes, E., Boudon, F., Durand, J. B., & Tombesi, S. (2022, August). Architecture and yield relationship in hazelnut tree. In XXXI International Horticultural Congress (IHC2022): International Symposium on Innovative Perennial Crops Management 1366 (pp. 331-336).
- 2022 Vinci A., Traini C., Brigante R., FARINELLI D. Assessment of the geometrical characteristics of hazelnut intensive orchard by an Unmanned Aerial Vehicle (UAV). In: 2022 IEEE Workshop on Metrology for Agriculture and Forestry (MetroAgriFor). IEEE. doi: 10.1109/MetroAgriFor55389.2022.9964832
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- 2022 Portarena S. Gavrichkova O., Brugnoli E., Battistelli A., Proietti S., Moscatello S., Famiani F., Tombesi S., Zadra C., FARINELLI D. Carbon allocation strategies and water uptake in young grafted and own-rooted hazelnut (*Corylus avellana* L.) Cultivars. *TREE PHYSIOLOGY*, vol. 42, p. 939-957, ISSN: 1758- 4469, doi: 10.1093/treephys/tpab164
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- 2022 Di Lena B., Curci G., Vergni L., FARINELLI D. Climatic Suitability of Different Areas in Abruzzo, Central Italy, for the Cultivation of Hazelnut. *HORTICULTURAE*, vol. 8, ISSN: 2311-7524, doi: 10.3390/horticulturae8070580
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- 2022 Famiani F., Cinosi N., Paoletti A., FARINELLI D., Rosati A., Lodolini E.M. . Deflowering as a Tool to Accelerate Growth of Young Trees in Both Intensive and Super-High-Density Olive Orchards. *AGRONOMY*, vol. 12, ISSN: 2073-4395, doi: 10.3390/agronomy12102319
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- 2022 Farinelli D., Luciani E., Villa F., Manzo A., Tombesi S. . First selection of non-suckering rootstocks for hazelnut cultivars. *ACTA HORTICULTURAE*, vol. n. 1346, 699-708 DOI: 10.17660/ActaHortic.2022.1346.88
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- 2021 Breton C. M., FARINELLI D., Koubouris G., Famiani F., Raymond M., Bervillé A.. A Dual-Successive-Screen Model at Pollen/Stigma and Pollen Tube/Ovary Explaining Paradoxical Self-Incompatibility Diagnosis in the Olive Tree—An Interpretative Update of the Literature. *PLANTS*, vol. 10 (9), p. 1-18, ISSN: 2223-7747, doi: 10.3390/plants10091938
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- 2021 FARINELLI D., Portarena S., da Silva Fernandes D., Traini C., Menegazzo da Silva G., Costa da Silva E., Ferreira da Veiga J., Pollegioni P., Villa F. . Variability of Fruit Quality among 103 Acerola (*Malpighia emarginata* D. C.) Phenotypes from the Subtropical Region of Brazil. *AGRICULTURE*, vol. 11, p. 1-19, ISSN: 2077-0472, doi: 10.3390/agriculture11111078
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- 2018 Castillo-Ruiz F. J., Tombesi S., FARINELLI D.. Olive fruit detachment force against pulling and torsional stress. SPANISH JOURNAL OF AGRICULTURAL RESEARCH, vol. Volume 16,, p. 202-212, ISSN: 1695- 971X, doi: 10.5424/sjar/2018161-12269
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- 2018 Tombesi S., Micheli M., Boco M., FARINELLI D.. Application of additive light increases leafy cutting rooting and survival in hazelnut (*Corylus avellana* L.). *ACTA HORTICULTURAE*, n. 1226, p. 225- 230, ISSN: 0567-7572, doi: 10.17660/ActaHortic.2018.1226.33
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- 2018 Castillo Ruiz F. J., Tombesi S., FARINELLI D.. Tracking olive fruit movement and twisting during the harvesting process using video analysis. *ACTA HORTICULTURAE*, n. 1199, p. 409-414, ISSN: 0567-7572, doi: 10.17660/ActaHortic.2018.1199.65
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