

# University Academic Curriculum Vitae

<b>Personal information</b>	Name: Fadwa Benyahia Website: ResearchGate: <a href="#">Fadwa Benyahia</a>
<b>Education since leaving school</b>	<ul style="list-style-type: none"> <li>• <b>2019 - 2023: PhD in Mountain Environment and Agricultural</b> Faculty of Agricultural, Environmental and Food Sciences, Free university of Bozen-Bolzano (Italy)</li> <li>• <b>2018-2019: International Master in Agriculture Heritage Systems</b> FAO GIAHS - School of Agriculture, University of Florence, Florence (Italy)</li> <li>• <b>2015-2017: Master of Science in Land and water resources management: Irrigated Agriculture - CIHEAM - Mediterranean Agronomic Institute of Bari (Italy)</b></li> <li>• <b>2010-2015: Engineering degree in Agricultural production: Natural Resources Management - University of Carthage: Higher Institute of Agriculture of Mograne and Higher Institute of Preparatory Studies in Biology-Geology of Soukra (Tunisia)</b></li> </ul>
<b>Current appointment</b>	<ul style="list-style-type: none"> <li>• <b>September 2025 – Present : Technologist</b> Faculty of Agricultural, Environmental and Food Sciences, Free university of Bozen-Bolzano (Italy)</li> <li>• Project title: Mountain Agriculture and Rural Bioeconomy for the Resilience of the Alpine Landscape</li> </ul>
<b>Previous employments</b>	<ul style="list-style-type: none"> <li>• <b>October 2024 – August 2025 : Research Assistant</b> Faculty of Agricultural, Environmental and Food Sciences, Free university of Bozen-Bolzano (Italy)</li> <li>• Project title: Assessment and valorization of biochar amendment for promoting soil health, carbon storage and sustainable viticulture</li> <li>• <b>February 2023 – October 2024 : Research Assistant</b> Faculty of Agricultural, Environmental and Food Sciences, Free university of Bozen-Bolzano (Italy)</li> <li>• Project title: Use of biochar as soil amendment in vineyard: effect on nitrogen balance and water availability for grapevine</li> </ul>
<b>Research</b>	<ul style="list-style-type: none"> <li>• <b>Research projects conducted within the framework of unibz activities:</b> <ul style="list-style-type: none"> <li>- <b>AMBRA (2025-2027).</b> Mountain Agriculture and Rural Bioeconomy for the Resilience of the Alpine Landscape (AMBRA). Project PI: M. Scampicchio</li> <li>- <b>BIO-C-VITE (2023-2025).</b> Assessment and valorization of biochar amendment for promoting soil health, carbon storage and sustainable viticulture. Project PI: G. Renella</li> <li>- <b>CHAR_GOAL (2021-2024).</b> Use of biochar as soil amendment in vineyard: effect on nitrogen balance and water availability for grapevine. Project PI: C. Andreotti</li> <li>- <b>AGRITECH (2022-2025) – Task 4.1.2.</b> Physiological traits of resilient grapevine varieties and rootstocks. Grapevine water and nutrient use efficiency and berry quality. Unit leader. S. Cesco</li> <li>- <b>BIODROPS (2020-2022).</b> Use of biostimulants to promote drought tolerance in fruit crops. Project PI: C. Andreotti</li> <li>- <b>CLEVAS (2020-2022).</b> Effect of climate extremes on grapevine production in South Tyrol: early detection of abiotic stress and consequences for wine quality. Project PI: M. Tagliavini</li> <li>- <b>WAVE (2019 – 2022).</b> Water losses and carbon assimilation in the vineyard as affected by changes of environmental drivers. Project PI: M. Tagliavini</li> </ul> </li> </ul>
<b>Scholarships</b>	<ul style="list-style-type: none"> <li>- IAMB grant for study program 2015-2017.</li> <li>- GIAHS first edition grant for study program 2018-2019.</li> <li>- UNIBZ grant for PhD studies 2019-2023.</li> </ul>
<b>Experience in didactic activities</b>	<ul style="list-style-type: none"> <li>• <b>2015:</b> Teaching assistant, Hands-on exercises on GIS software (QGIS, ArcGIS) for the course of “Introduction to GIS” for the students of agricultural production specialty at the University of Carthage.</li> <li>• <b>2021:</b> Organization and support for the laboratory exercise on maturity indexes of fruits for the course “Quality of Horticultural products” for M.Sc. students of Food Sciences for Innovation and Authenticity at the Free University of Bozen-Bolzano.</li> <li>• <b>2023:</b> Teaching assistant, Course of “Production chain management/Orchard and vineyard management” for master students of Horticultural Science (IMaHS) at the Free University of Bozen-Bolzano.</li> <li>• <b>2024:</b> Exercise assistant for the course “Viticulture and Oenology” for Bachelor students of Sustainable Agriculture and Forestry in Mountain Environments at the Free University of Bozen-Bolzano.</li> </ul>
<b>Publications</b>	<p><b>Journal articles in refereed academic journals</b></p> <ul style="list-style-type: none"> <li>• <b>2025:</b> Zanotelli D., Chini C., <i>Benyahia F.</i>, Andreotti C. and Tagliavini M. Microtensimeters for detecting and shaping the response of grapevine to increasing water stress levels. Acta Hortic. 1433, 103-110</li> <li>• <b>2025:</b> Fattorini R., Caretta TO, <i>Benyahia F.</i>, Zuluaga MYA, Monterisi S, Agostini A, Andreotti C, Cesco S and Pii Y. Double Trouble Belowground: Grapevine Rootstocks Face Drought and Copper Toxicity (under review - “Frontiers in Agronomy”)</li> <li>• <b>2024:</b> <i>Benyahia F.</i>, Gonzalez V.C., Ben Abdelkader A., Asensio D., Kadison A., Haas F., Raifer B., Wohlfahrt G., Zanotelli D., Tagliavini M. and Andreotti C. Impact of drought stress timing and intensity on</li> </ul>

	<p>physiological performance and wine quality in two white grapevine cultivars planted in a mountain vineyard. (under review - "Australian Journal of grape and wine research")</p> <ul style="list-style-type: none"> <li>• <b>2023: <i>Benyahia F.</i></b>, Santoro A., Piras F., The Mountain Oases, Tunisia. In "Potential GIAHS Sites in Africa" chapter in "Agricultural Heritage Systems in Europe, Asia, Africa, Central and South America". Agnoletti, M., Santoro, A., Fiore, B., Piras, F., Romano, F., Bazzurro, A. (2023) Environmental History, vol 16. Springer, Cham.</li> <li>• <b>2023: <i>Benyahia F.</i></b>, Bastos Campos F., Ben Abdelkader A., Basile B., Tagliavini M., Andreotti C., and Zanutelli D., 2023. Assessing grapevine water status by integrating vine transpiration, leaf gas exchanges, chlorophyll fluorescence and sap flow measurements. Agronomy 2023,13, 464.</li> <li>• <b>2023: Andreotti C., <i>Benyahia F.</i></b>, Petrillo M., Lucchetta V., Volta B., Cameron K., Targetti G., Tagliavini M. and Zanutelli D. Comparing defoliation and canopy sprays to delay ripening of Sauvignon blanc grapes.</li> <li>• <b>2022: Ben Abdelkader A., <i>Benyahia F.</i></b>, Bastos Campos F., Asensio D., Andreotti C., Tagliavini M and Zanutelli D., 2022. Apple tree transpiration during cycles of progressive drought as assessed via continuous gravimetric and xylem sap flux measurements. Italus Hortus 2022, 29.</li> <li>• <b>2020: Santoro A., Venturi M., Ben Maachia S., <i>Benyahia F.</i></b>, Corrieri F., Piras F. and Agnoletti M., 2020. Agroforestry Heritage Systems as Agrobiodiversity Hotspots. The Case of the Mountain Oases of Tunisia, Sustainability 2020, 12(10), 4054.</li> </ul>
<b>Publications about the applicant</b>	<ul style="list-style-type: none"> <li>• Blog on digital storytelling during the REMENA German-Arab young experts' Academy where different short films related to limitations in water use in MENA region were produced and narrated (<a href="https://h2o-kas.com/">https://h2o-kas.com/</a>)</li> </ul>
<b>Conferences/workshops</b>	<ul style="list-style-type: none"> <li>• XV Giornate Scientifiche SOI - Pisa, Italy – 25-27 Jun 2025 Contribution title : "Carbon farming ed impiego del biochar: evidenze da un esperimento di lungo termine in un vigneto di montagna" – Poster</li> <li>• Biochar-related workshop – Florence, Italy – May 2025 Contribution title : "A progress overview of the activities in the experimental vineyard at Labers, Merano"</li> <li>• Biochar-related workshop – Bolzano, Italy – Nov 2024 Contribution title : "Impiego del biochar in viticoltura: risultati dal progetto PRIN-PNRR BIO-C-VITE"</li> <li>• Presentation day of the volume "Agricultural heritage systems in Europe, Asia, Africa, Central and South America" – FAO HQ, Rome, Italy – 30 Oct 2024 Contribution title : "A GIAHS resilience model: The Mountain Oases in Tunisia" – Oral</li> <li>• Sustainable water and soil management for resilient viticulture – Zaragoza, Spain – 1-6 Jul 2024</li> <li>• X Congresso Nazionale di Viticoltura – Alghero, Italy – 11-13 Jun 2024 Contribution title: "Effetti dell'applicazione di biochar sulle risposte fisiologiche della vite, sulla produttività e sull' emissioni di gas ad effetto serra dal suolo" – Oral Flash</li> <li>• Workshop I dottorandi in viticoltura presentano le loro ricerche – Bologna, Italy – 9 June 2023 – Oral</li> <li>• IX Convegno Nazionale di Viticoltura - Conegliano, Italy – 13-15 Jun 2022 Contribution title: "Application of different commercial biostimulants to enhance vine tolerance toward drought stress" – Oral (presented by Prof. Andreotti C.)</li> <li>• XV Spanish-Portuguese Plant water relations symposium – 26-28 Jan 2022 – Attendee</li> <li>• 11<sup>th</sup> International Symposium on grapevine physiology and biotechnology - Stellenbosch, South Africa – 31 Oct 2021/05 Nov 2021 Contribution title: "How effective are plant biostimulants to alleviate drought stress in grapevine?" – Poster</li> <li>• VIII Convegno Nazionale di Viticoltura - Udine, Italy – 05-07 Jul 2021 Contribution title: "Monitoring water stress in grapevine: a multiple index approach" – Poster</li> <li>• XIII Giornate Scientifiche SOI - Catania, Italy – 22-23 Jun 2021 Contribution title : "Monitoring water stress in grapevine: a multiple index approach" – Oral (presented by Bastos Campos F.)</li> </ul>
<b>Language competence</b>	<p>Arabic/French: Bilingual English: Fluent Italian: Intermediate Spanish/German: Beginner</p>
<b>Memberships</b>	<p>SOI - Società di Ortofrutticoltura Italiana ISHS - International Society for Horticultural Science</p>
<b>Driving license</b>	B

Date and place

Signature

Bolzano, 10/09/25

Fadwa Benyahia