



## Curriculum Vitae

<b>Family name</b>	Zhioua
<b>Given name</b>	Khedija
<b>Date of birth</b>	22 August 2001
<b>Citizenship</b>	Italian–Tunisian
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<b>Qualifications</b>	2022-2025: Master's Degree in Hydraulics and Rural Development Engineering, National Agronomic Institute of Tunisia (INAT) 2020-2022: Bachelor's Degree in Preparatory studies in Biology and Geology, Higher Institute for Preparatory Studies in Biology and Geology (ISEP), La Soukra, Tunisia
<b>ORCID</b>	<a href="https://orcid.org/0009-0007-5414-982X">https://orcid.org/0009-0007-5414-982X</a>
<b>Location</b>	Department of Agricultural, Food, and Forest Sciences (SAAF), Viale delle Scienze, Palermo, Ed.4, Ingresso E, piano terra, stanza 009 (ED.4.E.PT-34)
<b>Studies abroad</b>	
<b>Research interests</b>	<ul style="list-style-type: none"><li>- Determination and characterization of soil hydrodynamic parameters (e.g. saturated and unsaturated hydraulic conductivity, water retention properties)</li><li>- Experimental investigation of Darcy's law applicability under different soil conditions</li><li>- Effects of soil compaction and structure on water flow and hydraulic behavior</li><li>- Laboratory methodologies for measuring saturated hydraulic conductivity (Ks)</li><li>- Comparison of different experimental approaches (e.g. constant head permeameter, SFH methods)</li><li>- Soil–water interactions in Mediterranean agro-ecosystems</li></ul>
<b>Expertise</b>	<ul style="list-style-type: none"><li>- GIS-based spatial analysis for water resources</li><li>- Soil physics and soil hydraulics</li><li>- Measurement of hydraulic conductivity</li><li>- Hydrological modeling</li></ul>
<b>Language skills</b>	Arabic – Native French – Fluent English – Fluent Italian – Intermediate
<b>IT skills</b>	HYDRUS 2D/3D, EPANET, WEAP QGIS, ArcGIS Python, R Microsoft Office
<b>Awards and scholarships</b>	
<b>Publications</b>	Autovino, D., Bagarello, V., Bondi, C., Russo, G., Zanna, F., & Zhioua, K. (2026). Hydrodynamic behavior of a near-saturated sandy-loam soil shortly after incorporating compost or zeolite. <i>Soil and Tillage Research</i> , 258, 107035.
<b>Link to publications (IRIS database)</b>	<a href="https://iris.unipa.it/cris/rp/rp170517">https://iris.unipa.it/cris/rp/rp170517</a>