



Curriculum Vitae

Family name	Zhioua	
Given name	Khedija	
Date of birth	22 August 2001	
Citizenship	Italian–Tunisian	
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Qualifications	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	
ORCID	https://orcid.org/0009-0007-5414-982X	
Location	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)	
Studies abroad		
Research interests	<ul style="list-style-type: none">- Determination and characterization of soil hydrodynamic parameters (e.g. saturated and unsaturated hydraulic conductivity, water retention properties)- Experimental investigation of Darcy's law applicability under different soil conditions- Effects of soil compaction and structure on water flow and hydraulic behavior- Laboratory methodologies for measuring saturated hydraulic conductivity (Ks)- Comparison of different experimental approaches (e.g. constant head permeameter, SFH methods)- Soil–water interactions in Mediterranean agro-ecosystems	
Expertise	<ul style="list-style-type: none">- GIS-based spatial analysis for water resources- Soil physics and soil hydraulics- Measurement of hydraulic conductivity- Hydrological modeling	
Language skills	Arabic – Native French – Fluent English – Fluent Italian – Intermediate	
IT skills	HYDRUS 2D/3D, EPANET, WEAP QGIS, ArcGIS Python, R Microsoft Office	
Awards and scholarships		
Publications	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. Soil and Tillage Research, 258, 107035.	
Link to publications (IRIS database)	https://iris.unipa.it/cris/rp/rp170517	