



Dipartimento di Scienze Agrarie, Alimenti, Risorse Naturali e Ingegneria
Department of Agriculture, Food, Natural resources and Engineering
(DAFNE)

CYCLE	XXXVIII
STUDENT	MARIA MATLOOB
TUTOR	Maria Luisa Amodio
CO-TUTOR	Claudio Perone

CURRICULUM	2 Innovative technologies for food quality and safety
PROVISIONAL TITLE of the RESEARCH PROJECT	Deep Learning for Precision Viticulture: Automated Grape Harvesting, Pruning, and Pesticide Detection
DOCTORAL SCHOLARSHIP	DM352 Rider srl
SHORT CV	- BACHELOR in Food Engineering, University of Agriculture, Faisalabad, Pakistan (2015-2019) -Master's in Food Engineering, University of Agriculture, Faisalabad, Pakistan (2020-2022) -Ph.D. in Biotechnology and smart practices for a sustainable management of natural resources, food and agriculture (2022 - present) Research interests: Hyperspectral Imaging, Deep Learning models development, Classification and Prediction models development Current studies: -Deep learning model for robotic grapes harvesting -AI model for the automated grapes pruning -Classification and prediction of pesticide residues in table grapes by means of hyperspectral imaging - AI model development for the automated kiwi fruit harvesting
PUBBLICATIONS	