

PERSONAL INFORMATION Mariangela Vallone



Sex:

Date of birth

Nationality

Enterprise	University	EPR
<input type="checkbox"/> Management Level	<input type="checkbox"/> Full professor	<input type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist
<input type="checkbox"/> Mid-Management Level	<input checked="" type="checkbox"/> Associate Professor	<input type="checkbox"/> Level III Researcher and Technologist
<input type="checkbox"/> Employee / worker level	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and level / Technical collaborator	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and level / Technical collaborator

WORK EXPERIENCE

- 2019 – present **Associate Professor of Agricultural Mechanics at the Department of Agricultural, Food and Forest Sciences of the University of Palermo, Italy**
Research focuses on mechanization of the typical crops of the Mediterranean area, post-harvest technologies for the agri-food sector, ergonomics and safety.
- October 2018 National qualification to the functions of full professor in the sector 07 / C1, MIUR ASN Bando 2016 (DD n. 1532/2016), valid from 15/10/2018 to 15/10/2027
- 2018 – 2008 **Researcher of Agricultural Mechanics at the Department of Agricultural and Forest Sciences of the University of Palermo, Italy**
- June 2008 – June 2004 **Post-Doctoral Fellowship in Agricultural Mechanics**
Since the academic year 2004/2005, responsible for many courses at the University of Palermo, Department of Agricultural, Food and Forest Sciences, formerly Faculty of Agriculture, in the disciplines of Agricultural Mechanics and Mechanization and related.
University of Palermo, viale delle Scienze Building 4, 90128 Palermo, Italy

EDUCATION AND TRAINING

- 2003 PhD in Mechanics and Agricultural Mechanization
- 2000 – 2002 PhD student in Mechanics and Agricultural Mechanization
University of Catania, via S. Sofia 64, 95125 Catania, Italy

▪ PhD thesis on Technical-qualitative analysis of pesticides distribution with sprayers on the vineyard

July 1998 Professional practice examination for engineer
University of Palermo

April 1998 Master Degree with first class honor in Civil Engineer, Faculty of Engineer
University of Palermo

PERSONAL SKILLS

Mother tongue(s)

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	

Job-related skills

Organisational / managerial skills

Digital skills

ADDITIONAL INFORMATION

Publications Author of more than 130 scientific publications, 53 of which are indexed in SCOPUS database.
<https://orcid.org/0000-0002-8881-1574>
SCOPUS ID: 35369110700
SCOPUS INFORMATION ON THE AUTHOR:
379 total citations, 53 documents, h-index: 12.

Publications List of some relevant recent publications

1. Vallone M., Aiello G., Bono F., De Pasquale C., Presti G., Catania P. (2022). An Innovative malaxer equipped with SCADA platform for improving extra virgin olive oil quality. *Sensors*, 22 (6), March-2, , Article number 2289, ISSN 14248220, doi: 10.3390/s22062289.
2. Aiello G., Catania P., Vallone M., Venticinqu M. (2022). Worker safety in agriculture 4.0: A new approach for mapping operator's vibration risk through Machine Learning activity recognition. *Computers and Electronics in Agriculture*, 193, 106637, ISSN: 0168-1699, doi: 10.1016/j.compag.2021.106637.
3. Catania P., Comparetti A., De Pasquale C., Morello G., Vallone M. (2020). Effects of the extraction technology on pomegranate juice quality. *Agronomy*, 10(10), October 2020, Article number 1483, ISSN 2073-4395, doi: 10.3390/agronomy10101483.
4. Catania P., Gaglio R., Orlando S., Settanni L., Vallone M. (2020). Design and implementation of a smart system to control aromatic herb dehydration process. *Agriculture*, 10(8), August 2020, Article number 332, ISSN 2077-0472, doi: 10.3390/agriculture10080332.
5. Catania P., Comparetti A., Febo P., Morello G., Orlando S., Roma E., Vallone M. (2020). Positioning accuracy comparison of GNSS receivers used for mapping and guidance of agricultural machines. *Agronomy*, 10(7), July 2020, Article number 924, ISSN 2073-4395, doi: 10.3390/agronomy10070924.
6. Catania P., Vallone M. (2020). Application of a precision apiculture system to monitor honey daily production. *Sensors*, 20, 2012, ISSN: 14248220, doi: 10.3390/s20072012.
7. Aiello G., Vallone M., Catania P. (2019). Optimising the efficiency of olive harvesting considering operator safety. *Biosystems Engineering*, 185, 15-24, ISSN: 1537-5110, doi: 10.1016/j.biosystemseng.2019.02.016.
8. Vallone M., Alleri M., Bono F., Catania P. (2019). A new wireless device for real-time mechanical impact evaluation in a citrus packing line. *Transactions of the ASABE*, 63(1), 1-9, ISSN 2151-0032, doi: 10.13031/trans.13194.
9. Catania P., Bono F., De Pasquale C., Vallone M. (2019). Closed tank pneumatic press application to improve sauvignon blanc wine quality and nutraceutical properties. *Journal of Agricultural Engineering*, 50(4),896, 159-165, ISSN:1974-7071, doi: 10.4081/jae.2019.896.
10. Vallone M., Alleri M., Bono F., Catania P. (2019). Quality evaluation of grapes for mechanical harvest using vis NIR spectroscopy. *Agric Eng Int: CIGR Journal*, 21(1): 140-149, ISSN: 1682-1130.
11. Catania P., Badalucco L., Laudicina V.A., Vallone M. (2018). Effects of tilling methods on soil penetration resistance, organic carbon and water stable aggregates in a vineyard of semiarid Mediterranean environment. *Environmental Earth Sciences*, 77:348, ISSN: 1866-6280 (Print) 1866-6299 (Online), doi: 10.1007/s12665-018-7520-5.
12. Aiello G., Giovino I., Vallone M. Catania P., Argento A. (2018). A decision support system based on multisensor data fusion for sustainable greenhouse management. *Journal of Cleaner Production*, 172, 4057-4065, ISSN: 0959-6526, doi: 10.1016/j.jclepro.2017.02.197.
13. Laudicina V.A., Palazzolo E., Catania P., Vallone M., Garcia A.D., Badalucco L. (2017). Soil Quality Indicators as Affected by Shallow Tillage in a Vineyard Grown in a Semiarid Mediterranean Environment. *Land Degradation and Development*, 28(3), 1038-1046, ISSN: 1085-3278, doi: 10.1002/ldr.2581.
14. Catania P., Vallone, M., Farid A., De Pasquale C. (2016). Effect of O2 control and monitoring on the nutraceutical properties of Extra Virgin Olive Oils. *Journal of Food Engineering*, 169, 179-188, ISSN: 0260-8774, doi: 10.1016/j.jfoodeng.2015.08.009.
15. Vallone M., Bono F., Quendler E., Febo P., Catania P. (2016). Risk exposure to vibration and noise in the use of agricultural track-laying tractors. *Annals of Agricultural and Environmental Medicine*, 23(4), 591-597, ISSN: 1232-1966, doi: 10.5604/12321966.1226852.
16. Vallone M., Bono F., Alleri M., Barone E., Catania P. (2016). Quality evaluation of "Tardivo di Ciaculli" mandarins in post-harvest processing on an industrial scale using a portable Vis/Nir device. *Transactions of the ASABE*, 59(2), 465-473, ISSN 2151-0032, doi: 10.13031/trans.59.11328.

May 19, 2022

Mariangela Vallone