Davide Cammarano
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Professional Preparation

Universita' della Basilicata, Potenza, Italy	Agricultural Science	B.S./M.Sc.,	2003
The University of Melborune, Australia	Agricultural Science	Ph.D.,	2010

Appointments

2022 – Present Professor, Aarhus University
2020-2022 Associate Professor, Purdue University
2014-2020 Research Scientist, Principal Investigator, James Hutton Institute, Dundee, U.K.
2014-2020 Honorary Lecturer, University of Dundee, Dundee, U.K.
2011-2014 Post-Doctoral Associate, University of Florida, FL, USA
2010-2011 Research Associate, Queensland University of Technology, Brisbane, Australia

Scientific interest

My overall scientific interests include agronomy, precision and digital agriculture, crop and soil sciences, climate change and climate forecasts in agriculture, understanding the role of agriculture in local and global food security.

Summary Publications

Total number of publications on ISI Journals 92
Book as Editor: 1
Proceedings (peer-reviewed): 18
Conference Presentation: 81

Selected publications (*5 chosen within the last 5 years*)

Ruan, G., **Cammarano, D**., Ata-Ul-Karim, S.T., Liu, X., Tian, Y., Zhu, Y., Cao, W., Cao, Q., 2024. Investigating data-driven approaches to optimize nitrogen recommendations for winter wheat. Computers and Electronics in Agriculture. doi.org/10.1016/j.compag.2024.108857

Cammarano, D., Olesen, J.E., Helming, K., Foyer, C.H., Schonart, M., Brunori, G., Bandru, K.K., Bindi, M., Padovan, G., Thorsen, B.J., Freund, F., Abalos, D., 2023. Models can enhance science-policy-society alignments for climate change mitigation. Nature Food. 4, 632-63

Pasquel, D**., Cammarano, D**., Roux. S., Castrignano', A., Tisseyre, B., Rinaldi, M., Troccoli, A., Taylor, J.A., 2023. Downscaling the APSIM crop model for simulation at the within-field scale. Agricultural Systems 212, 103773. https://doi.org/10.1016/j.agsy.2023.103773

Li, Y**., Cammarano, D.,** Yuan, F., Khosla, R., Mandal, D., Fan, M., Ata-Ul-Karim, S.T., Liu, X., Tian, Y., Zhu, Y., Cao, W., Cao, Q., 2023. A novel method for optimizing regional-scale management zones based on a sustainable environmental index. Precision Agriculture, https://doi.org/10.1007/s11119-023-10067-z

Cammarano, D., Basso, B., Holland, J., Gianinetti, A., Baroncheli, M., Ronga, D., 2021. Modeling spatial and temporal optimal N fertilizer rates to reduce nitrate leaching while improving grain yield and quality in malting barley. Computers and Electronics in Agriculture. 182, 105997

Professional activities *(selection of relevant ones)*

Jan 2023 – Present, Chief Editor of Precision Agriculture (Springer Nature)
Jan 2015 – Editorial Board of the European Journal of Agronomy

Professional membership
American Society of Agronomy (ASA), Soil Science Society of America (SSSA), International Society of Precision Agriculture (ISPA), Italian Society of Agronomy (SIA), European Society of Agronomy (ESA)

Invited Presentation (*most recent)*

- *Climate change impacts on processing tomatoes*. 15th World Processing Tomato Congress and 17th International Symposium on Processing, Budapest, Hungary, 9-12 Jun 2024.
- *Precision Agriculture: Is Temporal Variability Accounted For?* PREGA 2024, Budapest, Hungary, 06-08 Feb 2024
- *Digital and Precision Agriculture: Can they help optimize the Biostimulant management?* 6th Biostimulants World Congress. Milan, Italy, 29 Nov- 1 Dec 2023.
- *Climate change and adaptation in agriculture.* AISSA U40, National conferences. Salerno, Italy
- T*he projected decline of processing tomato production due to climate change.* Special Interest Group (SIG) on Vegetables&Ornamentals. Asian Seed Congress. Bankog, Thailand, 14-18 Nov 2022
- *Precision farming: benefits and potential applications in the biostimulant sector.* Invited Webminar for the Biostimulant Initiative, Online presentation with +1000 attendance 8th Jun 2022.
- *Using remotely sensed data as a potential substitute for hands-on growth analysis and soil sampling*. Digital Dynamism for Adaptive Food Systems, CGIAR, Online Workshop, Monday 19th Oct 2020

Grants received (*most recent*)
From 2016 until Feb 2024 I have received over 60 million USD in research support as Principal Investigator, and Co-Principal Investigator / Work Package Leader

Selected Grants (*most recent*)
System-based Precision Agriculture for Sustainable Crop Production, NovoNordisk Foundation, Oct 2023 – Sep 2028. $ 3,621,380 USD *Principal Investigator*
NSmartSystems: Smart Nitrogen Management for Diverse Cropping Systems. Green-ERA-Hub. Jan 2024 – Dec 2026. $1,283,898, WP Leader $360,000.
Oenotrace: From vineyard to bottle – trace sustainable practices in wine-growing under full transparency. May 2023 – May 2026. $ 1,346,443. WP Leader my total value: $371,867

Supervision
I have been supervising from 2017-2024 5 Postodoctoral Researchers; 6 PhD students; 10 Master students