



## Vito Aurelio Cerasola

### Work experiences

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**1 May 2021 –  
Current position**  
*Bologna, Italy*

**Consultant agronomist for developing countries  
Alma Mater Studiorum – University of Bologna**

Involved in the project H2020 FoodLAND (grant agreement n. 862802). He is coordinating a work team, in collaboration with CEFA Onlus, to improve the food security of farmers in the rural area of Jendouba governorate in Tunisia. He designed and coordinated the activities aimed at the implementation of a simplified hydroponic system, which fosters the principle of the circular economy. He led the research activities for the development of a growing substrate based on the recovered wheat straw to optimize hydroponic cultivation. He designed a community garden to involve up to 56 farmers, and the coordination activity for its implementation is ongoing

**1 May 2021 –  
1 Nov. 2021**  
*Bologna, Italy*

**Research fellow  
Alma Mater Studiorum – University of Bologna**

Research fellowship in "Precision management system of irrigation and nutrition in vegetable crops". He conducted an open-field experiment on 8 hectares on a processing tomato farm in Ravenna province (Emilia Romagna, Italy). He managed the irrigation based on meteorological and soil physical data, as well as using the soil moisture sensors. Nitrogen fertilization was also managed according to reflectance data after the calculation of Vegetation Indexes.

**1 Dec. 2020 –  
11 March 2021**  
*Bologna, Italy*

**Consultant agronomist for developing countries  
IILA – Istituto Italo Latino Americano**

Technical consultancy for the realization of an urban community garden in the city of Atyrà, Paraguay (part-time, in smart-working). He designed and planned the technical work for the realization of an urban community garden

**1 June 2019 –  
1 Sept. 2019**  
*Dajabòn,  
Dominican Republic*

**Agronomist for developing countries  
IILA – Istituto Italo Latino Americano**

He followed the technical activities for the implementation of an experimental and demonstrational area of 5,000 sq.m within the project "Precision agriculture on the frontier territory Dominican Republic-Haiti" in the agrarian school in the city of Dajabon. He followed the experimentation in the nursery of the school defining the optimal nutrient solution for growing vegetables; he designed and implemented the irrigation system, as well the drainage system. He acquired and developed problem-solving and communication skills

**11 April 2018 –  
15 July 2018**

*Bologna, Italy*

**Agricultural worker  
Biodiversity**

Agricultural activities were carried out, in particular, transplant, the realization of irrigation systems, the realization of simplified hydroponic systems, and training courses in simplified agriculture techniques for disadvantaged people

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## Education

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**Nov. 2021 –  
Dec. 2024**

*Bologna - Italy*

**Ph .D. in Agricultural, Environmental, and Food Science and Technology**

*Alma Mater Studiorum – University of Bologna*

Project thesis entitled “Modeling canopy reflectance for precise nitrogen management in vegetable crops “. The use of multispectral and hyperspectral sensors for retrieving biophysical properties of crops is studied to optimize the timing and the rate of nitrogen fertilization in vegetable crops

**Sept. 2018 –  
March 2021**

*Bologna - Italy*

**M.Sc. in Agricultural Science and Technology**

*Alma Mater Studiorum – University of Bologna*

Thesis entitled: “Heavy metals risk pollution assessment of urban soils and vegetables grown in the city of Teresina”. The work of thesis focused on the laboratory analysis of soil and vegetable samples, as well as their statistical elaboration and interpretation. Also the children’s health risk related to the consumption of urban vegetables was assessed.

Voting: 110/110 cum laude and special mention of the commission

**Sept. 2017 –  
Febr. 2018**

*Madrid - Spain*

**Visiting Erasmus student**

*Alma Mater Studiorum – University of Bologna*

Study of European Agricultural Policy, Marketing for Agrobusiness sector, and Spanish language

**Sept. 2015 –  
Oct. 2018**

*Bologna - Italy*

**Bachelor in Economics and Marketing for the Agricultural Sector**

*Alma Mater Studiorum – University of Bologna*

Thesis entitled: “Current situation and future perspective of urban community gardens of the city of Bologna”. Adoption of a bottom-up approach (focus groups with urban farmers) to assess the limits and the needed actions to optimize the management of urban gardens of the city.

**Sept. 2010 –  
June 2015**

*Palermo - Italy*

**High school Scientific diploma**

## Scientific activity and awards

Mr. Cerasola hold the qualification of *Devotee of subject in Vegetable crops*. He published scientific paper and participated in different national and international scientific congresses.

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### Publications

- Cerasola, V. A., Perlotti, L., Pennisi, G., Orsini, F., & Gianquinto, G. (2022). Potential Use of Superabsorbent Polymer on Drought-Stressed Processing Tomato (*Solanum lycopersicum* L.) in a Mediterranean Climate. *Horticulturae*, 8(8), 718
- Cerasola, V. A., Batista, L. P., Michelon, N., Orsini, F., Pennisi, G., de Arruda, F. P., ... & Gianquinto, G. (2022, August). Risk assessment for heavy metals in community gardens of the city of Teresina, Brazil. In *XXXI International Horticultural Congress (IHC2022): International Symposium on Urban Horticulture for Sustainable Food 1356* (pp. 263-270).
- Cerasola, V.A., Di Marco, A., Pennisi, G., Orsini, F., Bona, S., Gianquinto, G (2023). Modeling canopy reflectance for precise nitrogen management. In: *Proceeding of European Conference of Precision Agriculture (Accepted for publication)*

### Scientific congress and Scientific society

- Member of the Italian Society of Horticulture (SOI), Italian Society of Agronomy (SIA), and International Society for Horticultural Science (ISHS).
- He participated in several national and international scientific congresses.
  - International Horticultural Congress, (ISHS, Angers, France 2022)
  - EUVRIN congress (Gent, Belgium 2022)
  - Congress of Horticulture and Floriculture (SOI, Pisa, Italy 2022)
  - Landscape and Urban Agriculture Congress (ISHS, Catania, Italy 2021)
  - Congress of Horticulture and Floriculture (SOI, Catania, Italy 2021)
  - European Congress of Precision Agriculture (Bologna, June 2023)
- Organizer and chair of the webinar “Smart horticulture for a sustainable world”
- Co-organizer of the special session “Advances for new sensors and models for more sustainable protected cultivations” in Metrology for Agriculture and Forestry congress (6-8 November, Pisa, Italy) <https://metroagrifor.org/special-session-19>

### Awards

Awarded with the AgroInnovation Award – 2018 for the best bachelor thesis in Economics and Environment section. The award was promoted by ImageLine and the Academy of Georgofili. The thesis was published on the AgroNotize website.

### Training courses

- Proximal and remote sensing for precision agriculture (Italian Society of Agronomy, University of Padova, June 2022)
- Statistics for agricultural sciences (Italian Society of Agronomy, University of Palermo, July 2022)

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## Soft skills

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**Languages:**  
**Italian:** Mother language  
**English:** Advanced (professional)  
**Spanish:** Advanced (professional)

**Software:** Microsoft Office package (Word, PowerPoint, Excel), Rstudio.

**Soft skills:** Problem-solving, statistical analysis, reporting, communication, public speaking

Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae in base all'art. 13 del D. Lgs. 196/2003 e all'art. 13 del Regolamento UE 2016/679 relativo alla protezione delle persone fisiche con riguardo al trattamento dei dati personali