

# CURRICULUM VITAE



## PERSONAL INFORMATION

Name **CLAUDIO CIAVATTA**  
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E-mai [claudio.ciavatta@unibo.it](mailto:claudio.ciavatta@unibo.it)  
Sex Male  
Nationality Italian  
Date of birth 13.02.1958  
Marital status Married to Marina, father of Sara and Giulia

## JOB EXPERIENCE

- Date (from – to) **Academic career**  
2005, January 20<sup>st</sup> - to date: Full professor, Department of Agricultural and Food Sciences (DiSTAL) *Alma Mater Studiorum* University of Bologna.  
1998, November 1<sup>st</sup> - 2005, January 19<sup>th</sup>: Associate professor, Department of Agro-Environmental Science and Technologies (DiSTA), University of Bologna;  
1990, January 3<sup>rd</sup> - 1998, October 31<sup>st</sup>: Assistant professor, Institute of Agricultural Chemistry, Faculty of Agriculture, University of Bologna;
- **Employer address** *Alma Mater Studiorum* University of Bologna, Department of Agricultural and Food Sciences (DiSTAL) *Alma Mater Studiorum* University of Bologna (UniBo)  
Viale G. Fanin n. 40 - I-40127 Bologna, Italy

## EDUCATION

- Date (from – to) 1977-1981: graduated *magna cum laude* in Agricultural Sciences, April 15<sup>th</sup>, 1982 - UniBO

## PERSONAL SKILLS

MOTHER TONGUE **ITALIAN**

## OTHER LANGUAGES

- |                 |                                 |                            |
|-----------------|---------------------------------|----------------------------|
| • Understanding | <b>ENGLISH</b><br>Discreet – B1 | <b>FRENCH</b><br>Good – B2 |
| • Speaking      | Discreet – B1                   | Discreet – B1              |
| • Writing       | Good – B2                       | Discreet – B1              |

## COMMUNICATION SKILLS

Good communication skills gained through my experience as researcher and teacher. Excellent capacity of relationship with other research teams.

## ORGANISATIONAL / MANAGERIAL SKILLS

Leadership of about ten unit teams.  
Coordinator of some research teas with multidisciplinary skills.

## PROJECTS

Responsible within national research programs: National Research Council (CNR), Ministry of Scientific and Technological Research (MURST) and Ministry of Agricultural, Food and Forestry Policies (Mipaaf), European Union, INTAS and NATO.

Interreg Central Europe - Carbon Farming CE (April 2023-March 2026) – Co-funded by the European Union – Coord. Institute for Sustainable Development (ISD), Slovenia (member of the UniBO team).

Agritech - PNRR CUP: J33C22001150008 (September 2022-August 2025). Spoke 3 – WP 3.2 “Innovative strategies to protect natural resources and reduce agriculture environmental impact” - Task 3.2.1. “Sustainable solutions for the assessment and protection of soil fertility and quality”.

Horizon 2020 - WATERAGRI Grant agreement ID: 858375 (May 2020-April 2024). “Improving water management and nutrient recycling”. Component of the Research Unit of UniBO.  
<https://cordis.europa.eu/project/id/858375>

Contract EIT-FOOD 21173 (2021-2022). “Sustainable fertilizer from beef slaughtering biogas digested sludge. Digested sludge upgrading and converting into a recognized fertilizer”. Task leader of the Research Unit of UniBO.

Contract EIT-FOOD 21073 (2021-2022). “Mapping Of Soil Organic Matter, Assessing and tracking changes in soil quality remotely. Acronym: MOSOM. Task leader of the Research Unit of UniBO.

Contract No. QLK5-CT-2002-02344 "Integrated Biological Treatment and Agricultural Reuse of Olive Mill Effluents with the Concurrent Recovery of Energy Sources" Acronym: BIOTROLL. Task of the Research Unit in Bologna: Agricultural reuse of the remaining sludge after biogas production.

INTAS Ref. No. 186/01 – POLL “Humic substances from soils and waste-composts as natural photosensitizers to promote the degradation of pollutants in the environment. CR1 University of Bologna, DiSTA-Department of Agro-environmental Sciences and Technologies.

INTAS Ref. No.: 05-1000008-8055 - “Soil and compost organic matter structural compounds to promote the photodegradation of pesticides in the environment: for a better knowledge of photoactive components”. CR1 University of Bologna, DiSTA-Department of Agro-environmental Sciences and Technologies.

#### **Member of the Unit**

PATAFEST (01/06/23 - 31/05/27), Cultivating Resilience Driving Sustainable Potato Protection and Postharvest Excellence Tipo progetto: UE - HE - Global Challenges and European Industrial Competitiveness - Food, Bioeconomy Natural Resources, Agriculture and Environment

ECHO (01/06/23 - 31/05/27); Project type: UE - INTERREG - ERDF

Carbon Farming CE (01/04/23 - 31/03/26), Project type: UE - INTERREG - ERDF

Project type: PNRR - M4C2 - Investment 1.4 CN - CN - Agritech - CUP: J33C22001150008 (01/09/22 - 31/08/25)

Project type: UE - SOCIETAL CHALLENGES - H2020 - Food security, sustainable agriculture, marine and WATERAGRI (01/05/20 - 30/04/24)

ONE EARTH CE (2024-2028) Earth-To-Marine-To-Earth Virtuous Cycle: Harnessing Residual Biomass of Animal Origin for Terrestrial-Marine Integrated Circular Economy

#### **NATIONAL & INTERNATIONAL CONFERENCES**

He attended many national and international congress and conferences as well as member of scientific committee.

#### **TEACHING ACTIVITIES**

Since Academic year 2015-2016 lecturer at UniBo of:  
"Agricultural biochemistry and soil fertility", "Management of soil fertility"

in the past academic years at University of Bologna:

"Agricultural biochemistry", Soil chemistry, and "Soil fertility", "Soil fertility and Plant nutrition", "Use and recycling of biomasses of Agro-industrial origin";

while "Agricultural biochemistry" at University of “Politecnica delle Marche” and “Soil chemistry”, at University of Modena and Reggio Emilia.

#### **SCIENTIFIC SKILLS**

His scientific activity is focused on soil chemistry and biochemistry and mainly includes research on the aspects of the characterization of the soil's humic and humic-like substances, of organic fertilizers, compost and of the organic-based wastes and biosolids with both agronomical and environmental implications. Since long time my research is devoted to the reuse of organic-based by-products of agro-industrial origin encouraging the circular economy. The main objective is to increase structural and functional knowledge on the organic matter because it plays a key role in supplying plant nutrients, adsorption of heavy metals and xenobiotics in soils. Research were/are carried out using chromatographic (IEF, SEC-Page), potentiometric, termogravimetric (TG), differential thermal analysis DTA), spectroscopic techniques DRIFT, <sup>1</sup>H-, <sup>13</sup>C-NMR, and elemental analyzer (CHN) equipped with isotopic <sup>15</sup>N and <sup>13</sup>C mass spectrometer. Particular attention is also devoted to the nitrogen (N) and phosphorus (P) cycles with research aimed at to determine the mineralization of organic N and P (i.e., OxiTop® method is applied).

PUBLICATIONS	<p>Author / co-author of more than 300 publications most of which published in international and peer-reviewed journals (selected publications are listed in the Annex).</p> <p><b>Scopus</b> (December 30<sup>th</sup>, 2023): H-Index 38, Citations 4187 on 138 articles surveyed. (<a href="http://www.scopus.com/authid/detail.url?authorid=7003277305">http://www.scopus.com/authid/detail.url?authorid=7003277305</a>);</p> <p><b>Google Scholar</b> (December 30<sup>th</sup>, 2023): H-Index 46, Citations 6506, i-H10-index 114 on 402 articles surveyed (<a href="http://scholar.google.com/citations?view_op=list_works&amp;hl=en&amp;user=PBfpH7MAAAAJ">http://scholar.google.com/citations?view_op=list_works&amp;hl=en&amp;user=PBfpH7MAAAAJ</a> )</p> <p><b>ORCID:</b> <a href="https://orcid.org/0000-0002-7914-4394">https://orcid.org/0000-0002-7914-4394</a></p> <p>È autore/coautore di oltre 300 pubblicazioni di cui (alla data del 30.12.2023) 138 su riviste ISI/Scopus. <b>Scopus:</b> H-index 38 e citazioni 4187. <b>Google Scholar</b> somma citazioni 6506; citazioni in articoli dal 2017: 2460; H-index 46; i-10-index 114.</p>
ACADEMIC ACTIVITIES	<p>2015, November 1<sup>st</sup> - 2018, October 31<sup>st</sup>: Dean, School of Agriculture and Veterinary Medicine, UniBo</p> <p>2012, May 3<sup>rd</sup> - 2015, May 2<sup>nd</sup>: Elected Senator in Academic Senator of the University of Bologna for a 3-year period</p> <p>2009-2012, Chairman, Degree Course in "Agricultural Technology"</p> <p>2010-2012, May 15<sup>th</sup>: Head, PhD Program in "Agricultural, Environmental, Food Science and Technology"</p> <p>2007-2012, May 15<sup>th</sup>: Head, Ph.D. School in "Agricultural Science" of the University of Bologna;</p> <p>2003-2007, Head, Leonardo Program (UE-Erasmus) of the Agricultural Science Faculty, University of Bologna.</p>
POSITIONS IN SCIENTIFIC SOCIETIES	<p>2020 April – to date: Board Member of the Italian Academy of Agriculture</p> <p>2018- to date: Editorial board member of Agronomy (MDPI) <a href="https://www.mdpi.com/journal/agronomy">https://www.mdpi.com/journal/agronomy</a></p> <p>2016- to date: Corresponding academic resident, Academy of Sciences of the Bologna Institute (Section III - Biological, Animal and Plant Sciences)</p> <p>2016-2017: Past President, Italian Society of Agricultural Chemistry - SICA</p> <p>2014-2015: President, Italian Society of Agricultural Chemistry - SICA</p> <p>2012-2013: Vice President Elect, Italian Society of Agricultural Chemistry - SICA</p> <p>2015, December 15<sup>th</sup> – to date: Academic Ordinary of the Italian Academy of Agriculture</p> <p>2010 – December 14<sup>th</sup>, 2015: Academic Corresponding of the Italian Academy of Agriculture</p> <p>2004-2012: Member, "Board of Directories" of the International Humic Substances Society - IHSS.</p> <p>2004 – to date: Member of the Committee B. "Soil organic matter and organo-mineral interaction", Soil System Science (SSS), European Geosciences Union (EGU)</p> <p>2003 – to date: Member of the Scientific Board of Archives Agronomy &amp; Soil Science</p> <p>1993-1997: Secretary-Treasurer, Italian Society of Agricultural Chemistry - SICA.</p>
REFERRING ACTIVITY	<p>Referee, among the others, of more than 15 international scientific peer reviewed Journals: Agriculture, Agronomy, Ecosystems and Environment, Biology and Fertility of Soils; Chemosphere; Clean - Soil, Air, Water , Environmental Science and Technology; European Journal of Agronomy; European Journal of Soil Science; Geoderma; Journal of Agriculture and Food Chemistry; Journal of Analytical Applied Pyrolysis.; Journal of Arid Environments; Journal of Chromatography A; Journal of Environmental Quality; Journal of Environment Science and Technology; Journal of Hazardous Materials; Journal of Management and Waste Resources; Journal of Soil and Sediments Contamination; Waste Management; Soil Science Society of America Journal.</p>
MEMBER OF SCIENTIFIC SOCIETIES	<ul style="list-style-type: none"> <li>-International Humic Substances Society – IHSS and IHSS-Italian Chapter;</li> <li>-International Society of Horticultural Science - ISHS;</li> <li>-International Union of Soil Science - IUSS;</li> <li>-Italian Society of Agricultural Chemistry - SICA;</li> <li>-Italian Society of Soil Science – SISS;</li> <li>-Scientific Center on fertilizers (CIEC-Italian Chapter).</li> </ul>
MINISTERIAL APPOINTMENTS	<p>2016 up to date: Advisor CEN/TC 260/WG 8 – "Organic and organo-mineral fertilizers".</p> <p>2011 November-2017: Advisor in Brussels (European Commission - DG Growth): "Fertilizer Working Group" and "Regulatory Committee on Fertilizers.</p> <p>2000-to date: Member of the Sub-Commission for Official analytical methods of fertilizers (Masaf</p>

1994-to date: Member of the Italian Fertilizer advisor committee (Masaf).

COMPUTER SKILLS      Microsoft Office packages

DRIVING LICENSE      License Type B

### Publications

<https://orcid.org/0000-0002-7914-4394>

	Google Scholar		SCOPUS	
<b>Citations indices</b>	<b>All</b>	<b>Since 2019</b>		
<b>Citations</b>	6745	2283	<b>Documents</b>	139
<b>H-Index</b>	48	25	<b>H-Index</b>	39
<b>i10-index</b>	116	65	<b>Citations</b>	4297 3666 documents documents 222 Co-authors

Signature: Claudio Ciavatta

