



Maddalena Cappello Fusaro

Nationality: Italian, Brazilian **Date of birth:** 28/07/1994 **Gender:** Female

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📍 **Home:** Via Rudena, 35123 Padova (Italy)

WORK EXPERIENCE

🏢 **University of Padua** – Padova, Italy

City: Padova | Country: Italy

PhD researcher

[01/10/2022 – Current]

Supervisor: Carmelo Maucieri (carmelo.maucieri@unipd.it)

Co-Supervisor: Stefano Bona (stefano.bona@unipd.it)

Project: Aeroponic systems for the production of Cannabis sativa L. inflorescences with high THC content

Research stay abroad:

Technische Universität München (TUM), Germany – March 2024 to August 2024

Collaboration with Prof. Senthold Asseng on wheat growth in vertical farming systems.

🏢 **University of Padua** – Padova, Italy

City: Padova | Country: Italy

Research scholarship

[01/06/2021 – 30/09/2022]

Supervisor: Stefano Bona (stefano.bona@unipd.it)

April 22 – October 22 - Project: "Management of the hemp harvesting process"

June 21- March 22 - Project: "Optimization of hemp seed production in Veneto region"

Main activities: Field trial execution, chemical seeds analysis and statistical data analysis

🏢 **Universidade de Passo Fundo** – Passo Fundo, Brazil

City: Passo Fundo | Country: Brazil

Intercultural exchange

[01/03/2020 – 31/08/2020]

Supervisor: Claudia Petry (petry@upf.br)

Set-up and execution of an experiment under greenhouse conditions to evaluate the effective microorganisms influence on fagopyrum esculentum germination and growth for the master's thesis: "Effective microorganisms for germination and growth of Fagopyrum esculentum: an attempt"

🏢 **The Gardens of Trauttmansdorff Castle - Botanical Garden of Merano** – Merano, Italy

City: Merano | Country: Italy

Bachelor Internship

[01/07/2018 – 31/08/2018]

Supervisor: Karin Kompatscher (karin.kompatscher@provinz.bz.it)

Office work, cataloguing of plants, accompaniment to guided tours

EDUCATION AND TRAINING

Master degree - Post university higher education course

VIS - School od advance training [01/04/2022 – 31/08/2022]

Country: Italy | Website: <https://www.volint.it/> | Field(s) of study: Environment and Climate Change in International Cooperation

Master's degree in Sustainable Agriculture

University of Padua [01/10/2018 – 26/02/2021]

City: Padova | Country: Italy | Website: www.unipd.it | Field(s) of study: Crop science | Level in EQF: EQF level 7 | Thesis: Effective microorganisms for germination and growth of Fagopyrum esculentum: an attempt

Bachelor's degree in Land and landscape restoration and enhancement - Landscape, Parks and Gardens

University of Padua [01/10/2015 – 12/12/2018]

City: Padova | Country: Italy | Website: www.unipd.it | Level in EQF: EQF level 6 | Thesis: A green favela: how the inclusion of green infrastructure could improve living conditions in the favelas of Rio de Janeiro

LANGUAGE SKILLS

Mother tongue(s): Italian | Portuguese

Other language(s):

English

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

Spanish

LISTENING B1 READING B1 WRITING A2

SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

German

LISTENING A1 READING A1 WRITING A1

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

R (R Studio) / Data Gathering, Data Processing, Data Visualization, Data Analysis / Microsoft Office Package / GIS (Basic)

PUBLICATIONS

[2025]
Water Stress Effects on Biomass Allocation and Secondary Metabolism in CBD-Dominant Cannabis sativa L.

Authors: Maddalena Cappello Fusaro, Irene Lucchetta and Stefano Bona | **Journal Name:** Plants

Cappello Fusaro, M.; Lucchetta, I.; Bona, S. Water Stress Effects on Biomass Allocation and Secondary Metabolism in CBD-Dominant Cannabis sativa L. Plants 2025, 14, 1267. <https://doi.org/10.3390/plants14081267>

[2025]
Distribuzione dei terpenoidi in Cannabis sativa L.

Authors: Giulia Massarenti, Maddalena Cappello Fusaro, Stefano Bona | **Journal Name:** Erboristeria domani | **Volume, Issue and Pages:** Vol. 2025 Issue 02, p. 52-58

Massarenti, Giulia; Cappello Fusaro, Maddalena; & Bona, Stefano. (2025). Distribuzione dei terpenoidi in Cannabis sativa L. Erboristeria domani, 2/2025, 52–58.

[2023]

Coltivare molecole fuori suolo. Variazione nella frazione volatile di Basilico in funzione delle condizioni colturali in vertical farming

Innovazione in Botanicals, CEC Editore.

Lucia Zara, Francesco Mirone, Anna Perbellini, Maddalena Bruna Cappello Fusaro, Stefano Bona.

[2023]

Fitoalimurgia del Luppolo

Erboristeria Domani.

Anna Perbellini, Elena Spinsanti, Alvisè Carazzolo, Francesco Mirone, Maddalena C. Fusaro, Stefano Bona

[2023]

Canapa medicinale e COVID - Criteri e risultati di un approccio scientifico

Erboristeria Domani.

Elena Ferrarese, Maddalena Cappello Fusaro, Stefano Bona

[2022]

Collochiamo la Canapa

Erboristeria Domani.

Maddalena Bruna Cappello Fusaro, Francesco Mirone, Anna Perbellini, Stefano Bona.

[2022]

Lavanda Testing. Ad ogni varietà il proprio olio essenziale

Erboristeria Domani.

Anna Perbellini, Francesco Mirone, Maddalena Bruna Cappello Fusaro, Stefano Bona.

CONFERENCE AND SEMINARS

[16/06/2025 – 18/06/2025]

Forum Italo-Brasileiro de cooperativismo, agroindústria e inclusão sanitária

Organized by the Brazilian Cooperative Organization System (Organização das Cooperativas Brasileiras - OCB) of Pernambuco in partnership with the Ministry of Agrarian Development and Family Farming (Ministério do Desenvolvimento Agrário e Agricultura Familiar - MDA)

Oral presentation: Local Development, Organic Production, and Sustainability

Where: Recife, Brazil

[05/05/2025 – 06/05/2025]

4th Cannabis Scientific Symposium From Plants to People

Hosted by the QAQCC and the McGill Research Centre for Cannabis at the Research Institute of the McGill University Health Centre in Montreal, Quebec, Canada.

Oral presentation: "Water stress responses in *Cannabis sativa* L.: Effects on growth and secondary metabolite composition"

[20/12/2024]

Seminar: Indoor farming

MSc in Sustainable Agriculture

Course: Urban horticulture

Duration: 1 hour

[20/09/2024 – 20/09/2024]

Conference Plants and Health - Between evidence and critical issues: meeting research and health

Oral presentation "Principles of Cannabis Sativa L.: how cultivation conditions influence its composition"

[20/06/2023 – 20/06/2023]

Conference of the CANAP@OIL project: Process innovation to enhance the added value of hemp oil

Technical talk

Presentation of results for the project CanVen2022 'For the support and promotion of hemp cultivation (Cannapa sativa L.)', financed by the Veneto Region

[27/04/2023]

Seminar: Cultivation of Cannabis sativa

BSc in Agricultural Science and Technology

Organic Agricultural Production Systems Course

Duration: 2 hours

TEACHING

[12/11/2024 – 20/12/2024]

Integrated class: Basic statistics exercises

Bachelor degree in Agricultural Science and Technology

Applied statistics Course

Duration: 5 hours

[02/10/2024 – 16/10/2024]

Integrated class: Introduction to statistics

MSc in Agricultural Science and Technology

Statistical methodology Course

Duration: 10 hours

[17/04/2023 – 17/04/2023]

Sustainable soil management

IAP (Imprenditore agricolo professionale) course run by Confagricoltura Veneto

Duration: 2 hours

[03/10/2023 – 11/10/2023]

Integrated class: Introduction to statistics

MSc in Agricultural Science and Technology

Statistical methodology Course

Duration: 10 hours

THIRD MISSION ACTIVITIES

[08/05/2024 – 10/05/2024]

Macfrut 2024 (Rimini expo center) - Spices & Herbs Global Expo, Herbal Factory

Creation and management of sensory activities through the use of medicinal plants in various forms (such as whole plants, oils, extracts, etc.)

[30/09/2023 – 30/09/2023]

Science4all 2023

Activity of recognising different essential oils and distillation demonstration.

Presentation: Vertical farming and officinal plants (1 hour).

[06/05/2023 – 08/05/2023]

Macfrut 2023 (Rimini expo center) - Spices & Herbs Global Expo, Herbal Factory

Creation and management of sensory activities using different essential oils.

Daily brief presentation of ultrasound extractions process.

[04/05/2022 – 06/05/2022]

Macfrut 2022 (Rimini expo center) - Spices & Herbs Global Expo, Herbal Factory

Management of sensory activities related to the recognition of essential oils and dried drugs of different official plants.

[30/09/2022 – 30/09/2022]

Science4all 2022

Activity of recognising lavender essential oils and the combination of beer and hop pellets.

[27/09/2022 – 27/09/2022]

Demonstration Day for CanVen22 Project: Management of hemp seed harvesting

Event at Azienda Agraria Sperimentale L. Toniolo, University of Padua, Agripolis Campus.

Presentation: Illustration of the field trial (1 hour).

COMMUNICATION AND INTERPERSONAL SKILLS

Communication skills

I have good communication skills acquired during my sales and volunteering experiences. I have the ability to speak in front of people and present works and projects to the public thanks to the experience acquired during my master's degree. I am inclined to interact with other people, to work in groups and to solve problems with the group. I am patient and have a strong sense of adaptation to new dynamic working environments.

Job-related skills

I take every situation and problem seriously. I am ready to confront myself with others and with new experiences and cultures. I also have good skills in manual work. During the experimental thesis in Brazil and in Italy, for the master's degree and also during the scholarship experiment, I acquired the capacity of organizing and formulating an experimental design.

ORGANISATIONAL SKILLS

Organisational / managerial skills

I have good organizational skills, seriousness and precision that I acquired during the years of study, during the internship experiences and also during the last months of the scholarship research.

Autorizzo il trattamento dei miei dati personali presenti nel CV ai sensi dell'art. 13 d. lgs. 30 giugno 2003 n. 196 - "Codice in materia di protezione dei dati personali" e dell'art. 13 GDPR 679/16 - "Regolamento europeo sulla protezione dei dati personali".