



Dora Scarpin

EDUCATION AND TRAINING

[01/11/2020 – 01/03/2024]

PhD - Doctor of Philosophy

Università degli Studi di Udine <https://www.uniud.it/it>

Address: 33100, Udine, Italy

Field(s) of study: Agricultural Sciences and Biotechnologies

Thesis: Innovative technologies enabling plants to increase resilience as a pivotal feature in the conservation of agro-ecosystems

[2017 – 10/03/2020]

Master's Degree

Università degli Studi di Udine <https://www.uniud.it/it>

Address: 33100, Udine, Italy

Field(s) of study: Agricultural Sciences and Technologies

Final grade: 110/110 with honors

Thesis: Acquaponics: an economic and technical survey in Italy and Friuli

[2013 – 18/07/2017]

Bachelor's Degree

Università degli Studi di Udine <https://www.uniud.it/it>

Address: 33100, Udine, Italy

Field(s) of study: Agricultural Sciences

Final grade: 110/110 with honors

Thesis: Effects of boron deficiency on horticultural species in hydroponics

[2007 – 2013]

Scientific High School diploma

ISIS Latisana - Liceo Scientifico E.L. Martin

Address: 33053, Latisana (UD), Italy

Final grade: 95/100

WORK EXPERIENCE

[01/02/2024 – 31/01/2025]

Research fellow

Università degli Studi di Udine

City: Udine

Country: Italy

Nanotechnologies for agricultural sustainability

[02/11/2023 – 31/12/2023]

Research Scholarship

Università degli Studi di Udine

City: Udine

Country: Italy

Environmental and agricultural sustainability

[31/10/2020 – 31/10/2023]

Doctoral Researcher (PhD student)

Università degli Studi di Udine

City: Udine

Country: Italy

PhD student in Agricultural Sciences and Biotechnology at the University of Udine - Research Group of Plant Biology (BIO/04). Research topic: Innovative technologies for agricultural sustainability. Expertise: synthesis and characterisation of nanoparticles for sustainable crop protection, especially chitosan nanoparticles; functionalisation of nanoparticles with bioagents, including dsRNA sequences with interfering functions towards plant pathogens (*Botrytis cinerea*), and evaluation of their effectiveness in fungal inhibition; optical and confocal microscopy techniques with fluorescent probes and image processing; extraction and characterisation of exosomes from coffee cell cultures; electrophoresis and immunoblotting techniques; *in vitro* plant pathogen inhibition tests and data analysis with image processing software; plant phenotyping with imaging techniques; analysis of pigment and protein content in plant samples.

[01/2017 – 06/2017]

Laboratory trainee

Università degli Studi di Udine

City: Udine

Country: Italy

Chemical-biological laboratory, plant pathology section. Experience gained from both the internship and the bachelor's degree experimental activity: good laboratory practice; propagation of horticultural crops in a controlled environment (sowing on petri dishes and hydroponic cultivation); evaluation of germination rate after seed sterilisation treatments; preparation of nutrient solutions; data collection on nutrient deficiency symptoms; diagnostic procedures of pathogens via nucleic acid extraction and PCR analysis; propagation and conservation of phytoplasmas via herbaceous grafting on a model plant (*Catharanthus roseus*).

HONOURS AND AWARDS

[09/2020]

Best Graduate in Agricultural Sciences and Technologies in the academic year 2018/2019

Awarding institution: Award system of the University of Udine

PUBLICATIONS

[2023]

Characterisation and functionalisation of chitosan nanoparticles as carriers for double-stranded RNA (dsRNA) molecules towards sustainable crop protection

Reference: Scarpin et al., 2023. Bioscience Reports, Portland Press

[2021]

Calcium Phosphate Particles Coated with Humic Substances: A Potential Plant Biostimulant from Circular Economy

Reference: Adamiano et al., 2021. Molecules - MDPI

CONFERENCES AND SEMINARS

[2020 – 2023]

Various scientific contributions (oral presentations, scientific posters, etc.) through participation in conferences, schools and workshops

Oral and poster communications; contributions to the writing of master's or bachelor's theses.

Links: <https://www.linkedin.com/in/dora-scarpin-98a742183/> | <https://air.uniud.it/> | <https://orcid.org/my-orcid?orcid=0000-0003-0322-896X>

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

French

LISTENING A2 READING A2 WRITING A2

SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

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

COURSES

[2023] **R software techniques**

Two courses: 1) Course organized within the PhD program in Agricultural Sciences and Biotechnologies; 2) Course offered by TAO (Turtles of the Adriatic Organization APS)

[2022] **Lab Techniques**

Course organized within the PhD program in Agricultural Sciences and Biotechnologies

[15/03/2021 – 19/04/2021] **Systems Biology**

Course organized within the PhD program in Agricultural Sciences and Biotechnologies

[02/2021 – 05/2021] **English for Academic Purposes**

Course organized within the PhD program in Agricultural Sciences and Biotechnologies

[02/2019 – 29/05/2019] **English intermediate level**

CERTIFICATIONS

[08/2023 – Current] **Agronomist (Dottore Agronomo sezione A)**

Registered Agronomist, section A (Order of Agronomists and Foresters of Friuli Venezia Giulia, number 413)

Link: http://ordinefvg.conaf.it/sites/ordinefvg.conaf.it/files/Albo_FVG_ordine_alfabetico_al_21_settembre_2023_0.pdf

[2023 – Current] **UAS Remote Pilot A1 + A3 Open Category**

UAS (Unmanned Aerial System) Remote Pilot A1 + A3 Open Category - EUROCONTROL Aviation Learning Centre

[07/2020 – Current]

COURSE "24 CFU DM 616/2017" for access to competitions for teaching in secondary school

DOC435641/TIT_24CFU

Released by: Università degli Studi di Udine

[02/2021] **Occupational health and safety - executive training**

Released by: Università degli Studi di Udine

PROJECTS

[02/2020 – 2021] **Collaborator as copywriter for "Acquaponica.blog" website**

Link: <https://acquaponica.blog/author/dorascarpin/>

DIGITAL SKILLS

Microsoft Word | Microsoft Excel | Outlook | Microsoft Powerpoint | Microsoft Office | Zoom | Social Media | Google Docs | Facebook | Instagram | Google Drive | Skype | LinkedIn | Internet user | Power Point | Written and Verbal skills | Good listener and communicator | Presenting | Decision-making | Gmail | Team-work oriented | WhatsApp | Strategic Planning | Organizational and planning skills | Critical thinking | R Software | Fiji/ImageJ (Intermediate) | Zotero Citations Software | Inkscape 0.91

NETWORKS AND MEMBERSHIPS

[08/2019 – Current] **Carta di Sandrigo - Veneto Agricoltura**

It is a document drawn up and signed on the occasion of the first edition of the General States of the Lowland Woods (Sandrigo, 26/10/2017). It aims to bring the extension of Italian lowland woods from the current 500 to 5.000 hectares by 2050.

[2021] **ADI - Associazione Dottorandi e Dottori di Ricerca in Italia**

[02/2020] **Association "Cascina di Myriam"**

Scientific-cultural association. The aim is to bring as many people as possible to a more aware, empathic and respectful knowledge of the animal world. Particular attention is paid to the relational field, animal ethology and the value of individuality.

VOLUNTEERING

[11/2014 – Current] **Collaboration / participation in artistic and social events**

"My August Japanese Garden", San Giorgio di Nogaro (UD)

HOBBIES AND INTERESTS

Medicinal plants (harvesting and processing)

Hiking

Eco-sustainability

Personal growth (psychology)

Yoga

DRIVING LICENCE

Cars: B