



Alessandro Farbo

Nationality: Italian **Date of birth:** 09/01/1995 **Phone number:** (+39) 3505101931

Email address: alessandro.farbo95@gmail.com

Email address: alessandro.farbo@unito.it

Home: Via Baltimora 69, 10137 Turin (Italy)

WORK EXPERIENCE

Visiting Researcher

SLU: Swedish University of Agricultural Sciences [05/02/2024 – 19/05/2024]

City: Umeå | Country: Sweden

- Research activities on grasslands
- Development of forecasting model for grassland management

Research contributor

University of Turin [01/11/2022 – Current]

City: Turin | Country: Italy

I am in charge of the remote sensing and geomatic branches for the PSR research project TELECER alongside the supervisor Prof. Enrico Corrado Borgogno Mondino.

PhD Candidate

University of Turin [01/11/2022 – Current]

City: Turin | Country: Italy

PhD candidate at Department of Agricultural, Forest and Food Sciences.

The main research themes revolve around remote sensing for precision agriculture applications, crop and environmental monitoring.

I'm in charge of remote sensing and geomatic branch for the PSR research project TELECER alongside the supervisor Prof. Enrico Corrado Borgogno Mondino.

Researcher

University of Turin [05/07/2021 – 31/10/2022]

City: Turin | Country: Italy

I was in charge of the remote sensing and geomatic branches for the PSR research project TELECER alongside the supervisor Prof. Enrico Corrado Borgogno Mondino.

Lecturer

ITS Agroalimentare per il Piemonte [17/05/2023]

City: Turin | Country: Italy

Remote sensing and Precision Farming Lecture

EDUCATION AND TRAINING

Master degree in agricultural science - Sustainable crop management

University of Turin [01/10/2018 – 23/04/2021]

Address: Largo Paolo Braccini 2, 10095 Turin (Italy) | Website: <https://en.disafa.unito.it/do/home.pl> | Field(s) of study: Agriculture, forestry, fisheries and veterinary | Final grade: 110/110

Bachelor Degree in Agricultural and Forestry Sciences and Technologies

University of Turin [01/10/2014 – 23/04/2018]

Address: Largo Paolo Braccini 2, 10095 Turin (Italy) | Website: <https://en.disafa.unito.it/do/home.pl>

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING C1 **READING** C1 **WRITING** B2

SPOKEN PRODUCTION C1 **SPOKEN INTERACTION** C1

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

DIGITAL SKILLS

Microsoft Office / Microsoft Word / Microsoft Powerpoint / IBM SPSS - IBM Analytics / SAS Analysis / SAGA Gis / Google Earth Engine (GEE) / Google Earth Pro / QGIS / Python / Artificial Neural Network / Deep Learning, / Remote Sensing / Pytorch, Tensorflow

PUBLICATIONS

[2024]

[Forecasting corn NDVI through AI-based approaches using sentinel 2 image time series](#) ISPRS Journal of Photogrammetry and Remote Sensing
Volume 211, May 2024, Pages 244-261

A. Farbo; F. Sarvia; S. De Petris; V. Basile; E. Borgogno-Mondino

[2024]

[Estimation of Intercepted Solar Radiation and Stem Water Potential in a Table Grape Vineyard Covered by Plastic Film Using Sentinel-2 Data: A Comparison of OLS-, MLR-, and ML-Based Methods](#) Plants Journal

A. Farbo; N.G. Trombetta; L. de Palma; E. Borgogno-Mondino

[2024]

[Assessing mixed-pixels effects in vineyard mapping from Satellite: A proposal for an operational solution](#) Computers and Electronics in Agriculture, 2024

S. De Petris; F. Sarvia; F. Parizia; F. Ghilardi; A. Farbo; E. Borgogno-Mondino

[2022]

[A Fast Regression-Based Approach to Map Water Status of Pomegranate Orchards with Sentinel 2 Data](#) Horticulturae Journal

E. Borgogno-Mondino, A. Farbo, V. Novello, L. Palma

[2024]

Geometric vs spectral content of Remotely Piloted Aircraft Systems images in the Precision agriculture

context The Egyptian Journal of Remote Sensing and Space Sciences

Volume 27, Issue 3, September 2024, Pages 524-531

F. Sarvia, S. De Petris, A. Farbo, E. Borgogno-Mondino

[2022]

Preliminary concerns about agronomic interpretation of NDVI Time series from Sentinel-2 data: phenology and thermal efficiency of winter wheat in Piemonte (NW Italy) ISPRS 2022 conference

A. Farbo, F. Sarvia, S. De Petris, E. Borgogno-Mondino

[2022]

Spectral Measures from Sentinel-2 Imagery vs Ground-Based Data from Rapidscan® Sensor: Performances on Winter Wheat ASITA 2022 conference

A. Farbo, R. Meloni, M. Blandino, F. Sarvia, A. Reyneri, E. Borgogno-Mondino

[2022]

Exploring Stability of Crops in Agricultural Landscape through GIS Tools and Open Data ICCSA 2022 conference

F. Ghilardi, S. De Petris, A. Farbo, F. Sarvia, E. Borgogno-Mondino

[2022]

Geometric vs Spectral Content of RPAS Images in the Precision Agriculture Context D-Site 2022 Conference

F. Sarvia, S. De Petris, A. Farbo, E. Borgogno-Mondino

[2022]

Maize water stress monitoring by Sentinel 2 spectral indices SIA 2022 conference

R. Meloni, A. Farbo, A. Reyneri, E. Borgogno-Mondino, P. Colombatto, M. Blandino

[2023]

Consistency between MOD16A2 Potential Evapotranspiration time series and agro-meteo based models in Piemonte (NW Italy). Trends in Earth Observations - AIT 2023 conference

A. Farbo; F. Sarvia; S. De Petris; F. Ghilardi; E. Borgogno-Mondino

[2023]

Exploring Anti-Hail Nets Effects and their Temporal Behavior on Spectral Response over Orchards AIT 2023 conference

A. Farbo, F. Ghilardi, F. Sarvia, S. De Petris, E. Borgogno-Mondino

[2023]

Investigating the Impact of Seeding Date on Thermal Response of Winter Wheat NDVI AIT 2023 conference

A. Farbo, F. Sarvia, S. De Petris, E. Borgogno-Mondino

[2023]

Characterization of Alpine Pastures using Multitemporal Earth Observation Data within the Climate Change Framework AIT 2023, conference

T. Orusa, A. Farbo, S. De Petris, F. Sarvia, D. Cammareri, E. Borgogno-Mondino

[2023]

Remote sensing and Sentinel-2 data role within the Common Agricultural Policy 2023-2027 AIT 2023, conference

F. Sarvia, E. Xausa, S. De Petris, A. Farbo, E. Borgogno-Mondino

[2023]

Pixel Mixture Issue in Mapping Vineyard Phenology. A Possible Solution Based on Sentinel-2 Imagery and Local Least Squares AIT 2023, conference

S. De Petris, F. Sarvia, A. Farbo, F. Ghilardi, F. Parizia, E. Borgogno-Mondino

[2023]

Comparing Multispectral RPAS And Satellite Data For Rice Crop Multitemporal Characterisation EARSEL 2023, conference

E. Chiesa; S. De Petris; A. Farbo; F. Sarvia; E. Borgogno-Mondino

CONFERENCES AND SEMINARS

[16/06/2022 – 17/06/2022] Pavia (Italy)

D-SITE: Geometric vs Spectral Content of RPAS Images in the Precision Agriculture Context

[20/06/2022 – 24/06/2022] Genova (Italy)

ASITA 2022: Spectral Measures from Sentinel-2 Imagery vs Ground-Based Data from Rapidscan© Sensor: Performances on Winter Wheat

[03/07/2023 – 06/07/2023] Bucharest (Romania)

42nd EARSEL Symposium: Comparing Multispectral RPAS And Satellite Data For Rice Crop Multitemporal Characterisation

[17/06/2024 – 20/06/2024] Manchester, UK

43rd EARSEL Symposium: Consistency between MOD16A2 Potential Evapotranspiration time series and agrometeo based models in Piemonte (NW Italy).

[19/09/2024 – 20/09/2024] Milano, Italy

13th EARSEL Workshop on Forest Fires 2024: A Remote Sensing-based Scalable Decision Support System for Assessing Forest Wildfire Vulnerability: Mont Avic Natural Park Case in Aosta Valley (Italy)