Filippo Sarvia

Agronomist, GIS technician

OBJECTIVE

Both in my personal and in my professional life, I am enjoying working with teams to achieve a common goal. Presently my objectives concern remote sensing technology for agroforestry. In particular I'm dealing with climate change related topics, like: evaluation of reaction of natural and agricultural systems to ongoing changes (drought, floods and hail); EU CAP controls by multi-temporal satellite imagery; damage estimates to crops by extreme weather events (supporting insurance policies).

SKILLS

- Excellent knowledge of GIS software;
- Excellent knowledge of Office package programs;
- ECDL certification;
- Pesticide License;
- Team management;
- Problem solving;
- Deadline respect;
- Good team working;
- Proactive attitude.

EXPERIENCE

RESEARCH FELLOW SCHOLARSHIP • Enrico Borgogno

Department of Agriculture, Forestry and Food Sciences of Torino University • FEBRUARY 2019 – CURRENT • Grugliasco (ITALY)

Researches in geomatics applied to the agro-forestry sector with particular regard to the use of satellite/aerial/drone data for applications in precision agriculture, crop monitoring and management, insurance policies in agriculture and PAC control. Research activities for the Project: "Proposal for a service prototype based on satellite data to support CAP controls and insurance strategies in agriculture".

TRAINEESHIP • Simone Centamore

Giardini Centamore Company • JUNE 2018 – SEPTEMBER 2018 • Caselette (ITALY)

Care, management and maintenance of public and private green areas. Ordinary and extraordinary professional activities (mowing, felling, irrigation systems and green area design), carrying out a survey to assess customer demand and satisfaction.

EDUCATOR • Daniela Mesiti

Maria Ausiliatrice Institute• OCTOBER 2015 TO SEPTEMBER 2016 • Giaveno (ITALY)

Parified and Parity Primary School, Parity First Grade Secondary School. After-school activities, recreational moments, study assistance and coaching of the five-a-side football team (children aged 6 - 13 years).

TEACHING ASSISTANT & SEMINAR ACTIVITIES • Enrico Borgogno

University of Torino • OCTOBER 2018 – CURRENT • Torino (ITALY)

- Geomatics for Agriculture (Prof. Enrico Borgogno);
- Geomatics (Prof. Enrico Borgogno);
- Remote Sensing and Photo-interpretation (Prof. Enrico Borgogno);
- Photo-interpretation and informatics instruments for analysis and landscape representation (Prof. Enrico Borgogno).

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HONOURS AND AWARDS

• "Eugenio Zilioli" **best master's degree thesis award 2019** about optical remote sensing and integration of multi-source geographic data. Thesis: "Remote data to support control policies and insurance strategies in agriculture".

• **"Best Paper Award"** at International Conference on Computational Science and Its Applications (ICCSA 2019 – Saint Petersburg).

LANGUAGES

• Italian (mother tongue);
• English (basics).

PERSONAL INTERESTS

• Beekeeper;
• Sport-lover;
• Gastronomy

PEER REVIEW ACTIVITIES

•"International Journal of Disaster Risk Reduction" (Elsevier) (ISSN 2212-4209).

•"Annals of Silvicultural Research" (Crea) (ISSN 2284-354X).

EDUCATION and TRAINING

PhD STUDENT • AGRICULTURAL, FOREST AND FOOD SCIENCES

Department of Agriculture, Forestry and Food Sciences of Torino University

• OCTOBER 2020 – CURRENT • Grugliasco (ITALY)

PhD project: Scenarios of scalability of multi- and hyper-spectral remotely sensed data for evaluating climate change effects on vegetation. https://dott-safa.campusnet.unito.it/do/home.pl

24 University Training Credits • PEGASO TELEMATIC UNIVERSITY

• APRIL 2020

Courses attended: Didactics of Inclusion, General Psychology, Cultural Anthropology, Education and Learning Technologies.

STATE EXAMINATION AND PROFESSIONAL QUALIFICATION

• ODAF • JUNE 2019

Professional association of Agronomist and Forester.

MASTER OF SCIENCE IN AGRICULTURAL SCIENCES

• University of Torino • SEPTEMBER 2016 TO NOVEMBER 2018

Thesis: "Remote data to support control policies and insurance strategies in agriculture". Degree class LM-69: Agricultural Science and Technology. Score: 110/110. Reporter: Prof. Enrico Borgogno.

BACHELOR'S DEGREE IN AGRICULTURAL SCIENCE AND TECHNOLOGY

• University of Torino • SEPTEMBER 2012 TO APRIL 2016

Thesis: "Green areas for improving urban environmental quality".

RESEARCH PROJECTS

Research collaborator with University of Milan and Caritas in the project "Characterization of land use in the Diocese of Goma (Democratic Republic of Congo) by satellite remote sensing" (2018-2020);

Research collaborator with Piedmont Regional Agency for Agricultural Payments and Aerospace Logistics Technology Engineering Company in the project "Copernicus Sentinel-1 and 2 Data supporting CAP controls in agriculture" (2019-2020).

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PUBLICATIONS

De Petris, S., Sarvia, F., & Borgogno-Mondino, E. (2021). A New Index for Assessing Tree Vigour Decline Based on Sentinel-2 Multitemporal Data. Application to Tree Failure Risk Management. REMOTE SENSING LETTERS, 12(1), 58-67.

Momo, E. J., De Petris, S., Sarvia, F., & Borgogno-Mondino, E. (2021). Addressing Management Practices of Private Forests by Remote Sensing and Open Data: a Tentative Procedure. Remote Sensing Applications: Society and Environment, 100563.

Sarvia, F., De Petris, S., & Borgogno-Mondino, E. (2021). Exploring Climate Change Effects on Vegetation Phenology by MOD13Q1 Data: The Piemonte Region Case Study in the Period 2001–2019. Agronomy, 11(3), 555.

De Petris, S., Sarvia, F., Gullino, M., Tarantino, E., & Borgogno-Mondino, E. (2021). Sentinel-1 Polarimetry to Map Apple Orchard Damage after a Storm. Remote Sensing, 13(5), 1030.

Sarvia, F., Xausa, E., Petris, S. D., Cantamessa, G., & Borgogno-Mondino, E. (2021). A Possible Role of Copernicus Sentinel-2 Data to Support Common Agricultural Policy Controls in Agriculture. *Agronomy*, *11*(1), 110.

De Petris, S., Sarvia, F., & Borgogno-Mondino, E. (2020). RPAS-based photogrammetry to support tree stability assessment: Longing for precision arboriculture. Urban Forestry & Urban Greening, 55, 126862.

De Petris, S., Sarvia, F., & Borgogno-Mondino, E. (2020). A New Index for Assessing Tree Vigour Decline Based on Sentinel-2 Mul-titemporal Data. Appl. Tree Failure Risk Manag. Remote Sens. Letters.

Sarvia F, De Petris S & Borgogno-Mondino E (2020) Multi-scale remote sensing to support insurance policies in agriculture: from mid-term to instantaneous deductions, GIScience & Remote Sensing, 57:6, 770-784, DOI: 10.1080/15481603.2020.1798600.

Sarvia, F., De Petris, S., & Borgogno-Mondino, E. (2020). A Methodological Proposal to Support Estimation of Damages from Hailstorms Based on Copernicus Sentinel 2 Data Times Series. In International Conference on Computational Science and Its Applications (pp. 737-751). Springer, Cham.

De Petris, S., Berretti, R., Sarvia, F., & Borgogno Mondino, E. (2020). When a definition makes the difference: operative issues about tree height measures from RPAS-derived CHMs. iForest-Biogeosciences and Forestry, 13(5), 404.

Sarvia, F., De Petris, S., & Borgogno-Mondino, E. (2019). Remotely sensed data to support insurance strategies in agriculture. In Remote Sensing for Agriculture, Ecosystems, and Hydrology XXI (Vol. 11149, p. 111491H). International Society for Optics and Photonics.

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De Petris, S., Berretti, R., Sarvia, F., & Borgogno-Mondino, E. (2019). Precision arboriculture: a new approach to tree risk management based on geomatics tools. In Remote Sensing for Agriculture, Ecosystems, and Hydrology XXI (Vol. 11149, p. 111491G). International Society for Optics and Photonics.

Borgogno-Mondino, E., Sarvia, F., & Gomarasca, M. A. (2019). Supporting Insurance Strategies in Agriculture by Remote Sensing: A Possible Approach at Regional Level. In International Conference on Computational Science and Its Applications (pp. 186-199). Springer, Cham.

Sarvia, F., & Borgogno-Mondino, E. (2019). Copernicus S2 to support CAP control policies in agriculture. 12° Workshop tematico di Telerilevamento. Bologna (pp. 59-61). ISBN: 978-88-8286-377-7

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