

## PERSONAL INFORMATION

Giorgia Bagagiolo



## OCCUPATIONAL FIELD

Agricultural engineering

## WORK EXPERIENCE

April 2015 – present  
(5 years)

**Research fellow**

CNR – IMAMOTER (Institute for Agricultural and Earth moving Machineries)  
Strada delle Cacce, 73, 10135 Turin (Italy)

Research interests in crosscutting themes of agricultural engineering, with particular attention to environmental impact and socio-economic sustainability of agriculture. In details:

- Studies on soil degradation processes in hillside vineyards, evaluation of innovative soil managements and fertilization strategies for soil protection, water and nutrient conservation.
- Application of agrometeorological monitoring systems, sensor networks, Internet of Things and big data management aimed at reducing the environmental impact of agricultural practices.
- Studies on nutrients and organic matter recovery from farm effluents; demonstration of the technical and economic sustainability in reusing solid fraction from livestock waste; realization of innovative soil amendment valorizing residues from agro-food and agro-energy production chains in a circular economy perspective.
- Management of scientific projects founded by public and private entities (activities and cost reporting of research projects).

**Business or sector** Research and Development

February 2013 – March 2015  
(2years)

**Research assistant**

CNR – IMAMOTER (Institute for Agricultural and Earth moving Machineries)  
Strada delle Cacce, 73, 10135 Turin (Italy)

- Participation in field surveys and soil erosion data collection in experimental vineyards,
- Performance of laboratory analysis of collected samples;
- Qualitative and quantitative data collection among agricultural operators in order to assess farmers' adoption and perception of best management practices.

**Business or sector** Research and Development

October 2013 – March 2014  
(6 months)

**Grant holder**

CNR – IMAMOTER (Institute for Agricultural and Earth moving Machineries)  
Strada delle Cacce, 73, 10135 Turin (Italy)

Holder of a business-oriented research grant entitled "Master dei Talenti della Società Civile" founded by two local Foundations (Fondazione Giovanni Gorla and Fondazione CRT).

The project entitled "Production of an innovative organic pelleted fertilizer from the solid fraction of animal waste" has provided experimental activities concerning the densification of solid fraction, performance of a market research, identification of a business value proposition, preparation of a business plan.

**Business or sector** Research and Development

## EDUCATION AND TRAINING

November 2009 - April 2012

### Master of Agroecology – curr. Agro-engineering and land management - International scope in “Sustainable farming systems”

ISCED Level 5A

University of Turin – Department of Agricultural, Forest and Food Sciences, Largo Paolo Braccini 2 (già Via Leonardo da Vinci 44) - 10095 Grugliasco (TO) - Italy

- Farm systems for biomass energy production, Soil-plant-climate models, Agro-environmental economics and agronomy, CAD techniques, Rural constructions, GIS and cartography

October 2006 - October 2009

### Bachelor of Agricultural Technologies and Sciences

University of Turin – Department of Agricultural, Forest and Food Sciences, Largo Paolo Braccini 2 (già Via Leonardo da Vinci 44) - 10095 Grugliasco (TO) - Italy

- General agronomy, Botany, Soil Chemistry, Vegetal pathology, Entomology, Genetics, Zootechnics, Vegetal Physiology

## PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

|  | UNDERSTANDING |         | SPEAKING           |                   | WRITING |
|--|---------------|---------|--------------------|-------------------|---------|
|  | Listening     | Reading | Spoken interaction | Spoken production |         |
| English  | C1            | C2      | B2                 | B2                | C1      |
| Replace with name of language certificate. Enter level if known. |               |         |                    |                   |         |
| French   | C1            | C2      | B2                 | B2                | B2      |
| Replace with name of language certificate. Enter level if known. |               |         |                    |                   |         |
| Spanish  | B1            | B2      | B1                 | B1                | B1      |

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
[Common European Framework of Reference for Languages](#)

Digital skills

| SELF-ASSESSMENT        |                 |                  |            |                 |
|------------------------|-----------------|------------------|------------|-----------------|
| Information processing | Communication   | Content creation | Safety     | Problem solving |
| Proficient user        | Proficient user | Basic user       | Basic user | Basic user      |

Levels: Basic user - Independent user - Proficient user

ECDL Base

## ADDITIONAL INFORMATION

#### Relevant Publications

- **Bagagiolo G.**; Vigoroso L.; Caffaro F.; Cremasco M.M.; Cavallo E. (2019). Conveying safety messages on agricultural machinery: The comprehension of safety pictorials in a group of migrant farmworkers in Italy. *International journal of environmental research and public health*, 16, 13. DOI: 10.3390/ijerph16214180
- Vigoroso, L.; Caffaro, F.; Micheletti Cremasco, M.; **Bagagiolo, G.**; Cavallo, E. (2019). Comprehension of Safety Pictograms Affixed to Agricultural Machinery among Pakistani Migrant Farmworkers in Italy. *Journal of Agromedicine*, 14. DOI: 10.1080/1059924X.2019.1673269
- Pampuro N., **Bagagiolo G.\***, Cavallo E. (2019). Energy requirements for wood chip compaction and transportation. *Fuel*. DOI: 10.1016/j.fuel.2019.116618
- **Bagagiolo G.**, Biddoccu M., Rabino D., Cavallo E. (2018). Effects of rows arrangement, soil management, and rainfall characteristics on water and soil losses in Italian sloping vineyards. *Environmental Research*, 166, 690-704. Doi : 10.1016/j.envres.2018.06.048
- Pampuro, N., **Bagagiolo, G.**, Priarone, P. C., & Cavallo, E. (2017). Effects of pelletizing pressure and the addition of woody bulking agents on the physical and mechanical properties of pellets made from composted pig solid fraction. *Powder Technology*, 311, 112-119. doi: 10.1016/j.powtec.2017.01.092

#### Relevant Presentations

- **Bagagiolo G.**; Biddoccu M.; Rabino D.; Cavallo E. (2019). Effects of soil management on runoff and erosion response to rainfall events of sloping vineyards in the Monferrato area (NW Italy) in AIAM2019 - XXII Convegno Nazionale di Agrometeorologia Ricerca ed innovazione per la gestione del rischio meteo - climatico in Agricoltura, Portici (NA), 11/06/2019, 13/06/2019
- **Bagagiolo G.**, Rabino D., Biddoccu M., Cavallo E. (2018). Effects of soil management on runoff and erosion response to rainfall events of sloping vineyards in the Monferrato area (NW Italy). *TerraEnvision*, 27<sup>th</sup> January-2<sup>nd</sup> February 2018, Barcelona, Spain.
- **Bagagiolo G.**, Rabino D.; Biddoccu M.; Cavallo E. (2017). Monitoring erosion in sloping vineyards: effectiveness of grass covering in different periods. *Strategie integrate per affrontare le sfide climatiche e agronomiche nella gestione dei sistemi agroalimentari - Convegno nazionale AIAM - SIA 2017*. Milano, 12-14/09/2017.

#### Relevant Projects

- "Water4Ever - Optimizing water use in agriculture to preserve soil and water resources", ERA-NET Cofund Programme "Waterworks 2015" (Water JPI + FACCE JPI). Member of the scientific team.
- "CIRCE – Cooperative Internet-of-Data Rural-alpine Community Environment", funded by the POR-FESR – Programma Operativo Regionale, Regione Piemonte, Asse I – Linea d'Azione I.1.3. Member of the scientific team.
- "FITRAREF - Integrated Processing of Animal Waste into Pelleted Organic Fertilizer for Specialized Crops" project, funded by the Italian Ministry of Agriculture and Forestry (grant number, DM 29638/7818/10). Member of the scientific team.

#### Conferences

- Biddoccu M., **Bagagiolo G.**, Capello G., Rabino D., and Cavallo E. (2019) Effectiveness of soil water conservation measures under different rainfall characteristics in hilly vineyards of Piedmont (NW-Italy) in *Geophysical research abstracts* (Online).
- Cavallo, E., Biddoccu, M., **Bagagiolo, G.**, De Marziis, M., Gaia Forni, E., Alemanno, L., & Arattano, M. (2016). Interconnecting sensors and people to improve the knowledge and sustainable management in rural and alpine environment: the CIRCE project. In *EGU General Assembly Conference Abstracts* (Vol. 18, p. 13964).

#### Honours and awards

Best paper AIAM (Associazione Italiana di Agrometeorologia) for paper entitled "Effects of rows arrangement, soil management, and rainfall characteristics on water and soil losses in Italian sloping vineyards", *Environmental Research*, 166, 690-704.

#### Memberships

Professional Association of Agronomist of Turin Province (Ordine dei Dottori Agronomi e Forestali della Provincia di Torino)

Firmato in originale: Giorgia Bagagiolo