Sarah Garré

Associate professor

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Currently associate professor at the University of Liège, Gembloux Agro-Bio Tech, I am in charge of the scientific coordination of the interdisciplinary research platform AgricultureIsLife.be and I am part of the academic staff of the TERRA research center. I am leading an emerging research team in the field of hydrogeophysics and soil-plant interactions. I teach the courses Edaphology, Transport and distribution of fluids, Crop water needs, Irrigation and an Integrated Project on Hydrogeophysics. I also organise activities in order to stimulate creativity and innovation in the faculty and teach in the Certificate for Management of Polluted Soils.

Professional experience

10/2014 - ... **Associate professor** Université de Liège, Belgium

05/2012 - 10/2014 Assistant professor
Université de Liège, Belgium
#AgricultureIsLife #multidisciplinary research coordination #creativity & innovation #geophysics #irrigation #teaching

10/2010 - 05/2012 Postdoctoral research fellow
KULeuven, Belgium & Kasetsart University, Thailand
#international research project #coordination PhD's & MSc's #intercropping #root-zone competition #geophysics

09/2007 - 09/2010 PhD
Forschungszentrum Jülich GmbH, Germany
#solute transport #science communication #geophysics #project planning #virtual institute INVEST #root water uptake #lysimeter

Education

2012 BTC info cycle Mandatory course in Belgium in order to start development work
2010 Doktor der Agrarwissenschaften der Rheinischen Friedrich-Wilhelms-Universität, Bonn, Germany (sehr gut)
2008 Master Bioengineering Sciences KULeuven, Leuven, Belgium
2006 Specialisation: Soil and forest management (great distinction)
2004 Erasmus Universität für Bodenkultur, Vienna, Austria
2002

Convener

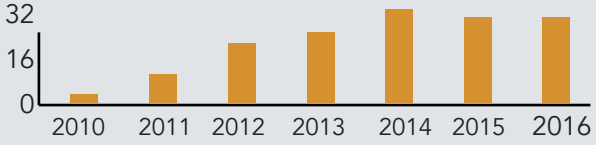
American Geophysical Union (AGU) Fall Meeting (since 2012),
General Assembly of the European Geosciences Union (EGU) (since 2014)

PhD supervision

Sophie Maloteau [2014-...] promotor
Electrical signature of plants in undisturbed soil
Sidonie Artru [2013-...] co-promotor
Potential of silvoarable agroforestry systems in Belgium: functioning & productivity
Solomon Ehosioke [2015-...] co-promotor
Unravelling the electrical signature of roots
Co-diplomation CAAS, China [2014-...] promotor
Liu Qin-Crop water productivity at multi-scales and its improvements in Huang-Huai-Hai plain
Baoqing Chen-N Cycling Mechanism under Plastic Mulching in Different Dry-land Ecosystems

Citations

Scientific seniority: 8 years
Citations: 153
H-Index: 5
Source: Google scholar (2016)



Reviewer

Reviewer profile: www.publons.com/a/459909/
Vadose Zone Journal, Soil Science Society of America Journal, European Journal of Soil Science, Hydrology and Earth Systems Sciences, Journal of Contaminant Hydrology, Agricultural and Forest Meteorology, Soil Science Society of America Journal, ExpeER, BASE, PlosONE, Geoderma, Water resources research, Journal of Hydrology, Plant and Soil

Scientific Societies

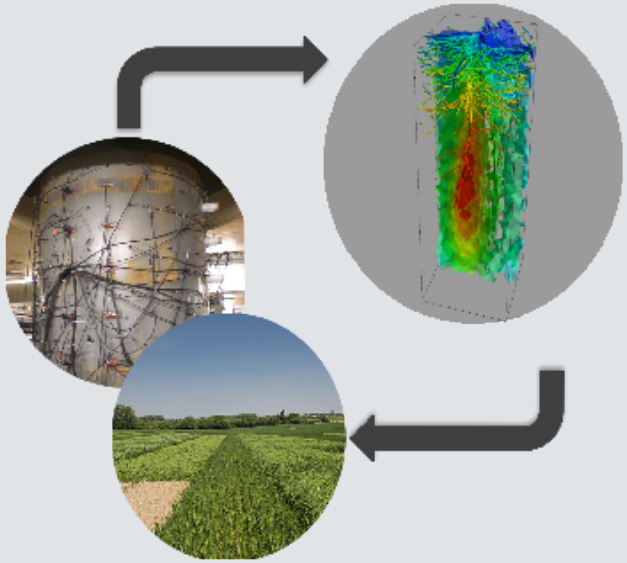
American Geophysical Union (since 2009), European Geosciences Union (since 2009), Belgian Soil Science Society SSSB (since 2008), Deutsche Bodenkundliche Gesellschaft (2009-2011), scientific committee doctoral school ENVITAM (2013), Soil Science Society of America (2015)

International collaborations

Kyoto University, Japan; Kasetsart University & Naresuan University, Thailand; University of Western Australia, Australia; University of Basilicata, Italy; Lancaster University, UK; Forschungszentrum Jülich & Hohenheim University, Germany; University of Arizona, USA; CAAS, China; Escola Superior de Agricultura, Brazil.

Keywords

soil-root interactions,
hydrogeophysics,
irrigation,
soil water dynamics,
solute transport,
ecohydrology,
agroforestry



Skills

Languages

Soft skills

project management, innovation management, science communication, group dynamics, event organisation

Techniques

ERT, IP, EMI, TDR, capacitance, tensiometry, classical soil physics techniques, modelling of terrestrial systems, inverse modelling