



ADELINE MERTENAT

ENVIRONMENTAL ENGINEER

Education

- 2012-2014 **Master in Environmental Engineering, EPF Lausanne**
- Specialization "Water, Ground and Ecosystem Engineering"
 - Minor in Area and Cultural Studies (MACS), specialization on Asia
- 2011-2012 **3rd year of Bachelor, Erasmus Exchange, DTU Denmark**
- 2009-2012 **Bachelor in Environmental Engineering (SIE), EPF Lausanne**

Professional experience

From 03.2016 Ongoing **Eawag Sandec, Dübendorf**

Project officer in the Municipal Solid Waste Management Group led by Dr. Christian Zurbrügg, in the Department of Sanitation, Water and Solid Waste for Development (Sandec) of the Swiss Federal Institute of Aquatic Science and Technology (Eawag)

Major Research Areas

- Resource recovery of organic waste in low to middle-income settings
- Improvement of waste management in schools
- Waste management and circular economy in low to middle-income settings
- Life Cycle Assessments of organic waste treatment technologies
- Solid Waste Management cost modeling

Teaching Activities

- ETH Zürich, Switzerland, Department of Civil and Environmental Engineering. Master level. Lecture: Environmental Sanitation Planning and Infrastructure in Developing Countries. Role: Lecturer on Solid Waste Management in Developing Countries
- EPF Lausanne, Switzerland, Department of Environmental Engineering. Master level. Lecture: Sanitary Engineering in Developing Countries. Role: Lecturer on Solid Waste Management in Developing Countries
- EPF Lausanne and Coursera: Lecturer of Massive Open Online Course (MOOC) modules on "Municipal Solid Waste Management in Developing Countries".

Other Professional Activities

- Technical backstopping for Central American NGOs of the DR-CAFTA Environmental Cooperation Small Grant Program (Workshops on capacity building, Field visits)
- Speaker in International Conferences (ISWA 2018 (Kuala Lumpur, Malaysia), Seminar International on Processing of Agricultural Organic Waste 2017 (Arequipa, Peru))

2015-16 4 months **Eawag Sandec, Aquitania (Colombia)**

Intern using the SOWATT (Selecting Organic Waste Treatment Technology) handbook in order to give alternatives to the municipality of Aquitania on the organic waste management issues. Tasks:

- Determining the actual organic waste management system and organic waste production
- Evaluating the alternatives following the SOWATT handbook

Personal Data

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Nationality: Swiss
Born on the 08th May 1990

Key skills

Dynamic, Organized,
Conscientious, Conciliatory

Language

 Mother tongue

 Very good oral/ written skills

 Very good oral/ written skills

 Good oral skills

 Basic knowledge

Computer skills

Microsoft Office (Word, Excel, Power Point), ArcGIS, SimaPro, R studio

Interests

Nature, Travels, Discoveries, Dance, Theatre, Education, Yoga

2015	2 months	HELVETAS and CSDIngénieurs, Villa Montes and Monteagudo (Bolivia) <i>Intern for the project GAM (Gestión Ambiental Municipal) (Swiss Cooperation) project oriented to health improvement of the population at a national scale, in particular at the most vulnerable living condition.</i> <i>Tasks:</i> <ul style="list-style-type: none">▪ Determining the actual solid waste and wastewater management systems▪ Cost evaluation of the two management systems▪ Assistance in logistic to the local partner
2015	3 months	CSDIngénieurs and Chiclayo's Municipality (MPCH), Chiclayo (Peru) <i>Intern for the project ChiclaYo Limpio (SECO, MPCH), pilot project oriented to improve the integrated management of solid waste in Chiclayo city.</i> <i>Tasks:</i> <ul style="list-style-type: none">▪ Establishment of a cost model for the solid waste recollection and street-sweeping systems▪ Assistance in planning and management of the project

Publications

Articles in reviewed journals

Mertenat, A., Diener, S., Zurbrügg, C., (2019). Black Soldier Fly biowaste treatment – Assessment of global warming potential. *Waste Management* 84, 173-181.

Lohri, C. R., Diener, S., Zabaleta, I., Mertenat, A., & Zurbrügg, C. (2017). Treatment technologies for urban solid biowaste to create value products: a review with focus on low- and middle-income settings. *Reviews in Environmental Science and Bio/Technology*, 1-50.

Books and book chapters

Leclert, L., Moser, D., Brogan, J., Mertenat, A. and Harrison, J., (2018). Blue Schools – Linking WASH in schools with environmental education and practice, Blue Schools Kit. 1st Edition. Swiss Water & Sanitation Consortium, Caritas Switzerland, Helvetas, Terre des hommes, Eawag.

Proceedings

Mertenat, A., Zurbrügg, C., (2018). "Assessing alternatives of waste collection through cost modelling – A case in Bolivia". ISWA 2018 World Congress, Kuala Lumpur, Malaysia

Mertenat, A., Zurbrügg, C., (2018). "Black Soldier Fly Biowaste Treatment – A way to reduce greenhouse gas emissions". ISWA 2018 World Congress, Kuala Lumpur, Malaysia

Popular articles

Mertenat, A., Landaeta, M.R., Zurbrügg, C. (2018). "Cost Modelling of Waste Management – Assessing Alternatives in Bolivia". Sandec News no 19.

Mertenat, A., Fadila, A., Kusumawardhani, T., Diener, S., Dortmans, B., Verstappen, B., Zurbrügg, C. (2017). "Greenhouse Gas Emissions from Black Soldier Fly Biowaste Treatment". Sandec News no 18.

Mertenat, A., Zabaleta I., Zurbrügg, C. (2016). "Appropriate Biowaste Treatment Technology for Aquitania, Colombia". Sandec News no. 17. Eawag, Dübendorf.