

Curriculum Vitae DANIELA LOVARELLI

Personal Information

Name: Daniela

Surname: Lovarelli

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Academic experience and education

November 2017 – On going: Postdoctoral fellow

Research topic: Life Cycle Assessment for rationing in dairy cattle with low input feed (project LIFE DOP - Demonstrative mODEl of circular economy Process in a high quality dairy industry)”

Institution: Università degli Studi di Milano, Department of Agricultural and Environmental Sciences, Production, Landscape, Agroenergy. Via Celoria, 2, 20134 Milan, Italy.

November 2014 – October 2017: PhD Student

Doctorate School “Agriculture, Environment and Bioenergy”. PhD Thesis: “Application and enhancement of Life Cycle Assessment and Water Footprint approaches to agricultural machinery and cultivation”

Institution: Università degli Studi di Milano, Department of Agricultural and Environmental Sciences, Production, Landscape, Agroenergy. Via Celoria, 2, 20134 Milan, Italy.

September 2016 – December 2016: Visiting period at the Swedish University of Agricultural Sciences

Institution: Swedish University of Agricultural Sciences, Department of Energy and Technology. Lennar Hjelm's väg 9, Uppsala, Sweden (SE). The Swedish Machinery Testing Institute (Svensk Maskinprovning - SMP), Verkstadsgatan 17 Umeå, Sweden (SE).

June 2015: PhD Course “Life Cycle Assessment of waste and energy systems”

Institution: Technical University of Denmark, Department of Environmental Engineering, Anker Engélunds Vej 1. DK-2800 Kgs. Lyngby, Denmark (DK).

August 2013 – February 2014: Erasmus student

Institution: Wageningen University Research Centre. Droevendaalsesteeg 2, 6700 Wageningen, the Netherlands (NL).

Qualifications

2015: Professional qualification of Agronomist

2012 – 2014: Master degree in Agricultural sciences

Master Thesis title: “The environmental sustainability of agricultural machinery operations: a new methodology”

Institution: Università degli Studi di Milano, Department of Agricultural and Environmental Sciences, Production, Landscape, Agroenergy. Via Celoria, 2, 20134 Milan, Italy.

2009 - 2012: **Bachelor degree in Agricultural Sciences and Technologies**

Bachelor Thesis title: "Recycling and value of thermal energy in anaerobic digestion plants on livestock holdings: a case study"

Institution: Università degli Studi di Milano, Department of Agricultural and Environmental Sciences, Production, Landscape, Agroenergy. Via Celoria, 2, 20134 Milan, Italy.

2004 - 2009: **Degree at High school for foreign languages**

Institution: Istituto Tecnico per il turismo P.P. Pasolini, via L. Bistolfi, 15, 20134 Milan, Italy.

Publications:

- 1) Lovarelli, D., Bacenetti, J. (2017). Bridging the gap between reliable data collection and the environmental impact for mechanised field operations. *Biosystems Engineering*. 160, 109-123.
- 2) Lovarelli, D., Ingraio, C., Fiala, M., Bacenetti, J. (2017). Beyond the Water Footprint: A new framework proposal to assess freshwater environmental impact and consumption. *Journal of Cleaner Production*. 1-13.
- 3) Bacenetti, J., Lovarelli, D., Fiala, M. (2016). Mechanisation of organic fertiliser spreading, choice of fertiliser and crop residue management as solutions for maize environmental impact mitigation. *European Journal of Agronomy*. 79, 107-118.
- 4) Lovarelli, D., Bacenetti, J., Fiala, M. (2017). Effect of local conditions and machinery characteristics on the environmental impacts of primary soil tillage. *Journal of Cleaner Production*. 140, 479-491.
- 5) Lovarelli, D., Bacenetti, J., Fiala, M. (2016). Water Footprint of crops productions: a review. *Science of the Total Environment*. 548-549, 236-251.
- 6) Bacenetti, J., Bava, L., Zucali, M., Lovarelli, D., Sandrucci, A., Tamburini, A., Fiala, M. (2016). Anaerobic digestion and milking frequency as mitigation strategies of the environmental burden in the milk production system. *Science of the Total Environment*. 539, 450-459.
- 7) Bacenetti, J., Lovarelli, D., Ingraio, C., Tricase, C., Negri, M., Fiala, M. (2015). Assessment of the influence of energy density and feedstock transport distance on the environmental performance of methane from maize silages. *Bioresource Technology*. 193, 256-265.
- 8) Bacenetti, J., Negri, M., Lovarelli, D., Garcia, L. R., Fiala, M. (2015). Economic performances of anaerobic digestion plants: Effect of maize silage energy density at increasing transport distances. *Biomass and Bioenergy*, 80, 73-84.
- 9) Negri, M., Bacenetti, J., Manfredini, A., Lovarelli, D., Fiala, M., Bocchi, S. (2014). Evaluation of methane production from maize silage by harvest of different plant portions. *Biomass and Bioenergy*, 67, 339-346.
- 10) Lovarelli, D., Bacenetti, J., Fiala, M. (2016). A new tool for life cycle inventories of agricultural machinery operations. *Journal of Agricultural Engineering*. 47, 40-53.
- 11) Bacenetti J., Zucali M., Bava L., Lovarelli D., Fiala, M. (2016). Impatto ambientale della zootecnia: misurarlo per ridurlo. IL LATTE; vol. 5, p. 18-23, ISSN: 0392-6060.
- 12) Bacenetti, J., Lovarelli, D., Fiala, M., Hoekstra, A. Y. (2015). L'impronta idrica di quello che mangiamo. *Terra E Vita*, 1-3.
- 13) Bacenetti, J., Negri, M., Lovarelli, D., Maggiore, T. M. (2014). Più metano nel biodigestore con insilato di spiga. *Terra E Vita*, 1-3.
- 14) Bacenetti, J., Lovarelli, D., Fiala, M. (2012). La digestione anerobica per refrigerare il latte. *Terra E Vita*. 1-3.