ALLEGATO B

UNIVERSITÀ DEGLI STUDI DI MILANO
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[Jacopo Bacenetti]
CURRICULUM VITAE

INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)

COGNOME	BACENETTI
NOME	JACOPO
DATA DI NASCITA	26, luglio 1982

Sommario

I. EDUCATION AND TRAINNING

2007-2010 - Ph.D Student enrolled at the Doctoral School "Technological Innovations for Agricultural, Food and Environmental Sciences" which lies in the Department of Agricultural Engineering (University of Milan). Research topics: 1) Analysis of economic, energetic and environmental sustainability of the most important Italian agro-energy chains. 2) Development of a software tool to assess the "comprehensive sustainability" of Renewable Energy by farms, in order to make a comparison between different agro-technical solutions.

2005-2007 - Second level Degree in "Sciences of Crop Production and Protection" (full graduation grade with honor, 110/110 cum laude), Faculty of Agriculture, University of Milan. Via Celoria 2, 20133, Milano, Italy.

2000-2005 - First level Degree in "Crop Production" (full graduation grade with honor, 110/110), Faculty of Agriculture, University of Milan. Via Giovanni Celoria 2, 20133, Milano, Italy.

II. ACADEMIC EXPERIENCE IN ITALY

2017 - Present - Researcher on fixed term (letter A) at the Department of Environmental and Policy Science, University of Milan. SSD AGR 09 - Agricultural Mechanics

2016 - 2017 - Researcher on fixed term (letter A) at the Department of Agricultural and Environmental Sciences, University of Milan. SSD AGR 09 - Agricultural Mechanics

2010 - 2016 - post-doctoral follower at the Department of Agricultural and Environmental Sciences - Production, Landscape, Agroenergy, University of Milan. Postdoctoral Research Fellowship financed by University of Milan, Regione Lombardia and the European Social Fund. Research topics: Evaluation using Life Cycle Assessment methodology of the environmental burdens of agricultural processes.

III. ACADEMIC EXPERIENCE ABROAD

04/2010 - 09/2010 - Department of Energy and Technology, Swedish University of Agricultural Sciences, 75007 Uppsala (Sweden) Ulls väg 30. Research topic: Analysis of energetic and environmental sustainability of Short Rotation Forestry in Sweden by means of LCA approach.

07/2013 - 08/2013 - Department of Chemical Engineering, School of Engineering. University of Santiago de Compostela. Rúa Lope Gómez de Marzoa s/n. 15782 Santiago de Compostela. (Spain) Research topic: Evaluation of environmental performance of electricity generation from anaerobic digestion of agricultural feedstock.

March 2017 - Inside the Program ERASMUS + (STAFF MOBILITY FOR TEACHING), Teacher at the ***Department of Chemical Engineering - Universidad de Santiago de Compostela*** within the framework of two subjects "Gestion ambiental" and "Ingenieria Ambiental" (Environmental Management and Environmental Engineering) in the course of Environmental Engineering (Bachelor Degree). Topic of research: "Environmental impact assessment of electricity produced from biogas in Italy".

February 2018 - Inside the Program ERASMUS + (STAFF MOBILITY FOR TEACHING), Teacher at the ***Department of Chemical Engineering - Universidad de Santiago de Compostela*** within the framework of two subjects "Gestion ambiental" and "Ingenieria Ambiental" (Environmental Management and Environmental Engineering) in the course of Environmental Engineering (Bachelor Degree). Topic of research: "Life cycle assessment of electricity from woody biomass".

March 2017 - Inside the Program ERASMUS + (STAFF MOBILITY FOR TEACHING), Teacher at the ***Department of Chemical Engineering - Universidad de Santiago de Compostela*** within the framework of two subjects "Gestion ambiental" and "Ingenieria Ambiental" (Environmental Management and Environmental Engineering) in the course of Environmental Engineering (Bachelor Degree). Topic of research: "Comparison among different dietary patterns".

IV. OTHER ACADEMIC APPOINTMENTS

2016 - today Founding Member of the "Agrifood LCA Laboratory" (https://sites.unimi.it/agrifood_lcalab/), University of Milano, Italy.

2018 - today Member of the Board for the PhD program in "Environmental sciences" (https://www.environsci.unimi.it/board.php), University of Milano, Italy.

V. PRIZE

2014 -UNASA (Unione Nazionale delle Accademie per le Scienze Applicate allo Sviluppo dell'Agricoltura, Sicurezza Alimentare ed alla Tutela Ambientale) and FEDERUNACOMA (Unione NAzionale COstruttori Macchine Agricole) 2014 Prize for manuscript published on 2013 on the area of agricultural mechanisation.

VI. PARTECIPATION AT NATIONAL AND EUROPEAN PROJECTS

EU Project as Responsible

2019 - 2022. SIMTAP EU project (PRIMA Call - Section 2 - https://primaobservatory.unisi.it/en/projects/simtap-self-sufficient-integrated-multi-trophic-aquaponic-systems-for-improving-food-production-sustainability-and-brackish-water-use-and-recycling), I am enrolled as leader for UNIMI and I am responsible of the activities focused on LCC and SLCA of different systems for in-land aquaculture production. The project stated on June 2019 and will be finish in May 2022. Funded allocated: 111.000 €

EU Project as Participant

2018-2021. LIFE Project (ARIMEDA - Ammonia emission reduction in Mediterranean agriculture with innovative slurry fertigation techniques.

2019-2022.LIFE MEGA - Smart computing system to monitor and abate the indoor concentrations of NH_3, CH_4 and PM in pig farms).

National Project as Participant

2012-2014. PRIN 2012. LLHS: "Long Life, High Sustainability" - Shelf Life Extension come indicatore di sostenibilità"

2018-2020. PSR - Regione Lombardia - MISURA 16 "Cooperazione" - SOTTOMISURA 16.2 - "Progetti pilota e sviluppo di innovazione". App-iDaiS - App for DAIrySustainability

VII. MAIN CONSULTANT ACTIVITIES

- **2018- 2019.** CAI Agromecc (Confederazione Italiana Agromeccanici e Agricoltori Italiani), comparison between the sustainability of soil tillage operation performed by farmers or by contractors (total funds: 10000 €).
- **2017 - 2019,** Riso Gallo Spa, 3 activities mainly focused on the environmental impact assessment of rice production process in Italy. (total funds: 14800 €).
- **2018 - 2019.** Consorzio italiano vivaisti (CIV), Environmental impact assessment of different varieties of strawberry and apple (total funds: 11000 €).
- **2018** - Repossi Macchine Agricole Srl, 1 activity focused on the eco-design of a novel double-wheel rake for haymaking (total funds: 17500 €).
- **2018** - Rota Guido Spa, assessment of the environmental impact of different devices for ammonia and PM emission reduction in pig barns (total funds: 19500 €).
- **2018** - D'Alesio&Santoro S.r.l, Life cycle assessment of MEG (Micro Experimental Growing (total funds: 5000 €),
- **2018** - Design Group Italia I.D. S.r.l, Comparison between different lighting systems for supermarket (total funds: 5500 €).
- **2014** - Consultant for Celim (Centro Laici Italiani per le Missioni) in the Project "SUSTAINABLE AGRICULTURAL DEVELOPMENT - Reinforcement of agricultural and food chain of production of mountain and rural communities" regarding the development of Renewable Energy Sources in the five Albanian Centers for Technology Transfer in Agriculture.

VIII. TEACHING ACTIVITIES

- **2019 - present** Course "Environmental impact analysis of agricultural systems" (*Master degree*) held in Milano (MI) at the *University of Milan* in the master degree course in "Biotechnology for Bioeconomy".
- **2019** - Approcci per la valutazione della sostenibilità ambientale - Approches for the environemtnal sustainability assessment (6 hours, *Doctorate School* in Environmental Science)
- **2019** - The methodology of Life Cycle Assessment (LCA) in the food chain (6 hours, *Doctorate School* in Food Science)

- **2018 - present** Course "Life cycle assessment" (*Master degree*) held in Milano at the *University of Milan* in the master degree course in "Environmental Food and Economics".
- **2018 - present** Course "Environmental impact analysis of agricultural systems" (*Master degree*) held in Milano (MI) at the ***University of Milan*** in the master degree course in "Agricultural Sciences".
- **2017** - Course "Renewable Energies in Mountain Areas" (*Bachelor degree*) held in Edolo (BS) at the ***University of Milan*** in the degree course in "Conservation and sustainable development of mountain areas".
- **2015 - 2017** - Course ITS "Tecnico superiore responsabile delle produzioni e delle trasformazioni agrarie, agroalimentari e agroindustriali" held by ***Fondazione ENAIP*** and ***Regione Lombardia*** at the Parco Tecnologico Padano in Lodi.
- **2014** - Teacher at the Master RIDEF 2.0 Reinventare l'Energia held in Milano by the ***Politecnico of Milan***.
- **2011** -Course "Use of energy resources in agriculture" (Uso delle risorse energetiche in agricoltura) held in Edolo (BS) at the ***Faculty of the Mountain - University of Milan*** in the degree course in "Conservation and sustainable development of mountain areas".
- **2010 - Present** -Master in "Energy and bio-products from biomass - Sustainable management of the chain and of the production processes" (Energia e Bioprodotti da biomassa - Gestione sostenibile delle filiere e dei processi produttivi) held in Milano by the ***Institute of Agricultural Biology and Biotechnology*** of the ***Italian National Council*** (CNR)
- **2009 - today** - Assistant supervisor of several BSc and MSc thesis focused on agricultural mechanic (2 BSc and 5 MSc), renewable energy production in agriculture (1 BSc and 5 MSc) and life cycle assessment application to agricultural systems (2 BSc and 8 MSc).

IX. EDITORIAL ACTIVITY

- **Associate Editor** of **Current Opinion in Environmental Science & Health** (https://www.journals.elsevier.com/current-opinion-in-environmental-science-and-health/editorial-board) (ISSN 2468-5844)

- **Associate Editor** of **Agriculture** (http://www.mdpi.com/journal/agriculture/editors) (ISSN 2077-0472, Scopus ID: https://www.scopus.com/sourceid/21100781511?origin=sbrowse)

- **Guest Editor** for the special volume "Agricultural and forest biomass for food, materials and energy: Bio-economy as the cornerstone to cleaner production and more sustainable consumption patterns for accelerating the transition towards equitable, sustainable, post fossil-carbon societies" of **Journal of Cleaner Production.**

- **Guest Editor** for the special volume "Agriculture Machinery for a Sustainable and Efficient Mechanization" a special issue of **Agriculture** (ISSN 2077-0472)
(http://www.mdpi.com/journal/agriculture/special_issues/agriculture_machinery)

- Collaborator of the following technical journals **Terra e Vita** (ISSN 0040-3776) (http://terraevita.edagricole.it/), **"Macchine Agricole"** (ISSN 1827-3734) (http://www.tecnichenuove.com/macchine-agricole.html), **"Vino, Vite e Qualita'"** (ISSN 1825-6082) (http://www.vigneviniequalita.it/), and **"Intersezioni"** (ISSN 2280-689X) (http://www.intersezioni.eu/), "Mondo Macchine - Machinery Word" (https://www.mondomacchina.it/it/index.php), Il contoterzista (https://contoterzista.edagricole.it/). with the publication of more than 65 articles.

- Reviewer for ELSEVIER® Global Book Production regarding book proposals in the field of Renewable Energies and Sustainability Assessment.

- Reviewer for the following international scientific journals:

2012 - current

1. Ecological Indicators;
2. Resources, Conservation & Recycling;

2013 - current

3. Journal of Cleaner Production;
4. Science of the Total Environment,
5. Food Control,
6. Environmental Science & Technology,

2014 - current

7. Industrial Crops and Products,
8. Agricultural Systems,
9. European Journal of Agronomy,
10. Integrated Environmental Assessment and Management,
11. Sustainability,
12. Applied Energy;

2015 - current:

13. Biomass and Bioenergy,
14. Waste and Biomass Valorization;
15. Ingegneria per l'Ambiente;
16. Journal of Integrative Agriculture;
17. GCB Bioenergy

2016 - current:

18. Biosystems Engineering;
19. Information Processing in Agriculture;
20. Water Resources and Industry
21. Energy
22. Journal of Environmental Management
23. Measurement

24. Biochemical Engineering Journal
25. Journal of Agricultural Engineering
26. International Journal of Environmental Science and Technology
27. International Journal of Hydrogen Energy
28. Waste management
29. International Journal of Life Cycle Assessment
30. Carbon management
31. Renewable Energy
32. Pedosphere
33. Environmental and Management Engineering Journal

2017 - current:

34. Biofuels, Bioproducts & Biorefinering
35. Bioresource Technology
36. Journal of Food Engineering

2018 - current:

37. BioResources
38. Environmental Science and Pollution Research
39. Scientia Agricola
40. Agronomy Research
41. Agricultural and Food Economics
42. Environmental Progress & Sustainable Energy
43. Sustainable Production and Consumption

X. MEMBERSHIPS

2013 - today Member of "Rete Italiana LCA" the Italian Network of LCA Scientists and Practitioners

2013 - 2014 Member of "SDEWES - International Centre for Sustainable Development of Energy, Water and Environment Systems".

2014 - today Member of "AIIA - Italian Society of Agricultural Engineering".

XI. PUBLICATIONS

h-index: 22

Citations: 1307

(Scopus https://www.scopus.com/authid/detail.uri?origin=resultslist&authorId=43961010800&zone=)

Scientific publications in journals with Impact Factor (IF)	*Scientific publications in Scopus journals without IF*	*Book Chapters*	*Conferences, workshops and symposia*	*Publication in technical journals*
64	12	6	> 20	> 70

Scientific publications in journals with Impact Factor (IF)

1. Tedesco D., Conti C., Lovarelli D., Biazzi E., **Bacenetti J.** (2019) Bioconversion of fruit and vegetable waste into earthworms as a new protein source: The environmental impact of earthworm meal production. Science of The Total Environment, 683, 690-69.
2. **Bacenetti, J.**, (2019), Heat and cold production for winemaking using pruning residues: environmental impact assessment. Applied Energy, 252,
3. De Marchi E., Cavaliere A., **Bacenetti J.**, Milani F., Pigliafreddo S., Banterle A. (2019). Can consumer food choices contribute to reduce environmental impact? The case of cisgenic apples. Science of The Total Environment, 681, 155-162
4. D. Valiante, I. Sirtori, S. Cossa, L. Corengia, M. Pedretti, L. Cavallaro, L. Vignoli, A. Galvagni, S. Gomarasca, G.R. Pesce, A. Boccardelli, L. Orsi, D. Lovarelli, D. Facchinetti, D. Pessina, **Bacenetti J.** (2019). Environmental impact of strawberry production in Italy and Switzerland with different cultivation practices. Science of the Total Environment, 664, 249-261.
5. Ingrao, C., **Bacenetti, J.**, Adamczyk, J., Ferrante, V., Messineo, A., & Huisingh, D. (2019). Investigating energy and environmental issues of agro-biogas derived energy systems: A comprehensive review of Life Cycle Assessments. Renewable Energy, 136, 296-307.
6. **Bacenetti, J.**, Fusi, A., & Azapagic, A. (2019). Environmental sustainability of integrating the organic Rankin cycle with anaerobic digestion and combined heat and power generation. Science of The Total Environment, 658, 684-696.
7. González-García, S., **Bacenetti, J.** (2019). Exploring the production of bio-energy from wood biomass. Italian case study. Science of the Total Environment, 647, 158-168.
8. Ingrao C., **Bacenetti, J.**, A. Bezama A., Blok V., Goglio G., Koukios E.G., Lindner M., Nemecek T., Siracusa V., Zabaniotou A., Huisingh D. 2018. The potential roles of bio-economy in the transition to equitable, sustainable, post fossil-carbon societies: Findings from this virtual special issue. Journal of Cleaner Production, 204: 471-488.
9. Lovarelli, D., Fusi A., Pretolani, R., **Bacenetti, J.**, (2018). Delving the environmental impact of roundwood production from poplar plantations. Science of the Total Environment, 645, 646-654.
10. **Bacenetti J.**, Lovarelli D., Facchinetti D., Pessina D. (2018). An environmental comparison of techniques to reduce pollutants emissions related to agricultural tractors. Biosystems Engineering, 171, 30-40.
11. Tayefeh, M., Sadeghi, S. M., Noorhosseini, S. A., **Bacenetti, J.**, & Damalas, C. A. (2018). Environmental impact of rice production based on nitrogen fertilizer use. Environmental Science and Pollution Research, 1-11.
12. Lovarelli D., **Bacenetti J.**, Tholley J.b., Fiala F. 2018. Comparison Between Two Rice Cultivation Practices in Sierra Leone: Traditional and Alternative Method. AGRICULTURAL MECHANIZATION IN ASIA AFRICA AND LATIN AMERICA, 49 (2), 37-42.

13. Bacenetti, J., Lovarelli, D., Tedesco, D., Pretolani, R., & Ferrante, V. (2018). Environmental impact assessment of alfalfa (Medicago sativa L.) hay production. Science of the Total Environment, 635, 551-558.
14. Bernardi B., Falcone G., Stillitano T., Benalia S., **Bacenetti J.**, De Luca I. 2018. Harvesting system sustainability in Mediterranean olive cultivation. Science of The Total Environment, 625: 1446-1458.
15. Bava, L., **Bacenetti, J.**, Gislon, G., Pellegrino, L., D'Incecco, P., Sandrucci, A., ... & Zucali, M. (2018). Impact assessment of traditional food manufacturing: The case of Grana Padano cheese. Science of The Total Environment, 626, 1200-1209.
16. **Bacenetti J.**, Cavaliere A., Falcone G., Giovenzana V., Banterle A., Guidetti R. 2018. Shelf life Extension as solution for environmental impact mitigation: A case study for bakery products. Science of The Total Environment, 627:997-1007.
17. Lovarelli D., Ingrao C., Fiala M., **Bacenetti J.** (2018). Beyond the Water Footprint: A new framework proposal to assess freshwater environmental impact and consumption. JOURNAL OF CLEANER PRODUCTION, 172, 4189-4199, 10.1016/j.jclepro.2016.12.067
18. **Bacenetti, J.**, Bava, L., Schievano, A., Zucali, M. 2018. Whey protein concentrate (WPC) production: Environmental impact assessment. Journal of Food Engineering, 224: 139-147.
19. Zucali M., **Bacenetti J.**, Tamburini A., Nonini L., Sandrucci A., Bava L. (2018). Environmental impact assessment of different cropping systems of home-grown feed for milk production. Journal of Cleaner Production, 172, 3734-3746, doi.org/10.1016/j.jclepro.2017.07.048
20. Tricase, C., Lamonaca, E., Ingrao, C., **Bacenetti, J.**, & Giudice, A. L. (2018). A comparative Life Cycle Assessment between organic and conventional barley cultivation for sustainable agriculture pathways. Journal of Cleaner Production, 172, 3747-3759.
21. Noya, I., González-García, S., **Bacenetti, J.**, Fiala, M., Moreira, M.T. (2018). Environmental impacts of the cultivation-phase associated with agricultural crops for feed production. Journal of Cleaner Production, 172, 3721-3733.
22. Proto A.R., **Bacenetti J.**, Macrì G., Zimbalatti G. (2017). Roundwood and bioenergy production from forestry: Environmental impact assessment considering different logging systems. Journal of Cleaner Production, 165, 1485-1498.
23. Lovarelli, D., **Bacenetti, J.** (2017). Seedbed preparation for arable crops: environmental impact of alternative mechanical solutions. Soil Tillage Research, 174, 156-168.
24. 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.
25. **Bacenetti J.**, Restuccia A., Schillaci G., Failla, S. (2017). Biodiesel production from unconventional oilseed crops (Linum usitatissimum L. and Camelina sativa L.) in Mediterranean conditions: Environmental sustainability assessment. Renewable Energy, 112, 444-456.
26. Lijó, L., González-García, S., **Bacenetti, J.**, Moreira, M. T. (2017). The environmental effect of substituting energy crops for food waste as feedstock for biogas production. ENERGY, 137, 1130-1143, doi.org/10.1016/j.energy.2017.04.137.

27. Pesce G., Negri M., **Bacenetti J.**, Mauromicale G. (2017). The biomethane, silage and biomass yield obtainable from three accessions of Cynara cardunculus. Industrial Crops and Products, 103, 233-239.
28. Lijó, L., Lorenzo-Toja, Y., González-García, S., **Bacenetti, J.**, Negri, M., & Moreira, M. T. (2017). Eco-efficiency assessment of farm-scaled biogas plants. Bioresource technology, 237, 146-155.
29. Schmidt Rivera X., **Bacenetti J.**, Fusi A., Niero M. (2017). The influence of fertiliser and pesticide emissions model on life cycle assessment of agricultural products: The case of Danish and Italian barley. SCIENCE OF THE TOTAL ENVIRONMENT, 592, 745-757, 10.1016/j.scitotenv.2016.11.183
30. Fusi, A., González-García, S., Moreira, M. T., Fiala, M., **Bacenetti, J.** (2017). Rice fertilised with urban sewage sludge and possible mitigation strategies: an environmental assessment. Journal of Cleaner Production, 140, 914-923.
31. 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 (2), 479-491, doi:10.1016/j.jclepro.2016.02.011
32. **Bacenetti J.**, Baboun S.H., Demery F., Aburdeineh I., Fiala M. (2016). Environmental impact assessment of electricity generation from biogas in Palestine. ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, 15 (9): 1915-1922.
33. **Bacenetti J.**, Sala C., Fusi A., Fiala M. (2016). Agricultural anaerobic digestion plants: What LCA studies pointed out and what can be done to make them more environmentally sustainable? APPLIED ENERGY, 179, 669-686 doi:10.1016/j.apenergy.2016.07.029.
34. Nikkhah, A., Royan, M., Khojastehpour, M., **Bacenetti, J.** (2017). Environmental impacts modeling of Iranian peach production. Renewable and Sustainable Energy Reviews, 75, 677-682.
35. **Bacenetti J.**, Bergante S., Facciotto G., Fiala M. (2016). Woody biofuel production from short rotation coppice in Italy: Environmental-impact assessment of different species and crop Management, BIOMASS & BIOENERGY, 94, 209-219. doi: 10.1016/j.biombioe.2016.09.002
36. **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.
37. **Bacenetti, J.**, Fusi A., Negri, M., Fiala, M., Bocchi, S. 2016. Organic production systems: Sustainability assessment of rice in Italy. AGR. ECOSYST. ENVIRON., 225, 33-44. doi:10.1016/j.agee.2016.03.046
38. Ingrao C., **Bacenetti J.**, Bezama A., Vincent Blok V., Geldermann J., Goglio P., Koukios E.G., Lindner M., Nemecek T., Siracusa V., Zabaniotou A., Huisingh D. 2016. Agricultural and forest biomass for food, materials and energy: Bio-economy as the cornerstone to cleaner production and more sustainable consumption patterns for accelerating the transition towards equitable, sustainable, post fossil-carbon societies. JOURNAL OF CLEANER PRODUCTION 117, 4-6. doi:10.1016/j.jclepro.2015.12.066
39. Negri M., **Bacenetti J.**, Fiala M., Bocchi S. (2016). Evaluation of anaerobic degradation, biogas and digestate production of cereal silages using nylon-bags. BIORESOURCE TECHNOLOGY, 209, 40-49. doi: 10.1016/j.biortech.2016.02.101.

40. Lovarelli D., **Bacenetti J.**, Fiala M. (2016). Water Footprint of crop productions: A review. SCI TOTAL ENVIRON 548-549C, 236-251. doi:10.1016/j.scitotenv.2016.01.022
41. Fusi A., Castellani V., **Bacenetti J.**, Cocetta G., Fiala M., Guidetti R. (2016). The environmental impact of the production of fresh cut salad: a case study in Italy. THE INTERNATIONAL JOURNAL OF LIFE CYCLE ASSESSMENT, 21:2, pp. 1-14. doi:10.1007/s11367-015-1019-z.
42. **Bacenetti J.**, Pessina D., Fiala M. (2016). Environmental assessment of different harvesting solutions for Short Rotation Coppice plantations. SCI TOTAL ENVIRON, 541:210-217. doi:10.1016/j.scitotenv.2015.09.095
43. **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. SCI TOTAL ENVIRON, 539: 450-459. doi:10.1016/j.scitotenv.2015.09.015
44. **Bacenetti J.**, Lovarelli D., Ingrao C., Negri M., Tricase C., 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, vol. 193c, p. 256-265. doi:10.1016/j.biortech.2015.06.067.
45. Ingrao C., Lo Giudice A., **Bacenetti J.**, Khaneghah A.M., de Souza Sant'Ana A., Rana R., Siracusa V. (2015). Foamy polystyrene trays for fresh-meat packaging: Life-cycle inventory data collection and environmental impact assessment. FOOD RESEARCH INTERNATIONAL, 76 (3), 418-426 doi 10.1016/j.foodres.2015.07.028.
46. **Bacenetti J.**, Fiala M. (2015). Carbon footprint of electricity from anaerobic digestion plants in Italy. ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL; vol.14, No. 7, 1495-1502.
47. **Bacenetti J.**, Negri M., Lovarelli D., Ruiz Garcia L., Fiala M. (2015). Economic performances of anaerobic digestion plants: Effect of maize silage energy density at increasing transport distances. BIOMASS AND BIOENERGY, vol. 80, p. 73-84. doi.org/10.1016/j.biombioe.2015.04.034
48. Ingrao C., Lo Giudice A., **Bacenetti J.**, Tricase C., Dotelli G., Fiala M., Siracusa V., Mbohwa C. Energy and environmental assessment of industrial hemp for building applications: A review. RENEWABLE AND SUSTAINABLE ENERGY REVIEWS 2015, vol. 51, p. 29-42. doi.org/10.1016/j.rser.2015.06.002
49. **Bacenetti J.**, Duca D., Fusi A., Negri M., Fiala M. (2015). Mitigation strategies in the agro-food sector: the anaerobic digestion of tomato puree by-products. An Italian case study. SCI TOTAL ENVIRON; vol. 526, p.88-97. doi.org/10.1016/j.scitotenv.2015.04.069,
50. Lijó L., González-García S., **Bacenetti J.**, Negri M., Fiala M., Feijoo G., Moreira M.T. (2015). Environmental assessment of farm-scaled anaerobic co-digestion for bioenergy production. WASTE MANAGEMENT 41, 50-59. DOI: 10.1016/j.wasman.2015.03.043
51. Noya I., González-García S., **Bacenetti J.**, Arroja L., Moreira M.T. (2015). Comparative life cycle assessment of three representative feed cereals production in the Po Valley (Italy). JOURNAL OF CLEANER PRODUCTION, vol. 2015, 99, 250-265, ISSN: 0959-6526, doi: 10.1016/j.jclepro.2015.03.001
52. **Bacenetti J.**, Fusi A. (2015). The environmental burdens of maize silage production: Influence of different ensiling techniques. ANIMAL FEED SCIENCE AND TECHNOLOGY, vol. 2015, p. 1-11, ISSN: 0377-8401, 204, 88-98. doi: 10.1016/j.anifeedsci.2015.03.005

53. Bacenetti J., Fusi A., Negri M., Fiala M. (2015). Impact of cropping system and soil tillage on environmental performance of cereal silage productions. JOURNAL OF CLEANER PRODUCTION, vol. 86, p. 49-59, ISSN: 0959-6526, doi: 10.1016/j.jclepro.2014.08.052
54. Lijó L., González-García S., **Bacenetti J.**, Fiala M., Feijoo G., Moreira M.T. (2014). Assuring the sustainable production of biogas from anaerobic mono-digestion. JOURNAL OF CLEANER PRODUCTION, vol. 72, p. 23-34, ISSN: 0959-6526, doi: 10.1016/j.jclepro.2014.03.022
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1. Falcone G., Lovarelli D., **Bacenetti J.** (2018). Electricity Generation from Anaerobic Digestion in Italy: Environmental Consequences Related to the Deletion of Economic Subsidies Chemical Engineering Transactions. 67, 475-480.
2. Proto, A.R., **Bacenetti J.**, Macrì, G., Fiala, M., Zimbalatti, G. (2017). Mechanisation of different logging operations: Environmental impact assessment using life cycle assessment (LCA) approach. Chemical Engineering Transactions. 58, 229-234.
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4. Fusi A., **Bacenetti J.**, Fiala M., Azapagic A. 2016. Life Cycle Environmental Impacts of Electricity from Biogas Produced by Anaerobic Digestion. FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY, 4: 26. doi:10.3389/fbioe.2016.00026
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6. Fiala M., **Bacenetti J.** 2012. Caso studio. Ipotesi investimento per un impianto di teleriscaldamento in(Capitolo 21) "Biomasse ed energia. Produzione, gestione e processi di trasformazione" a cura di S. Castelli - Maggioli Editore, p- 559-564.

Participation in conferences, workshops and symposia

1. Bacenetti J., (2019). Environmental impact assessment of different solutions of pruning residues management in vineyard. ANQUE-ICCE 3, 3rd INTERNATIONAL CONGRESS OF CHEMICAL - ANQUE-ICCE-CIBIQ 2019, Santander 19-21 June 2019.
2. Lovarelli D., Falcone G., Bacenetti J., (2019). Variazione del quadro di incentivazione delle fonti elettriche rinnovabili: Analisi consequenziale della produzione di elettricità da impianti di biogas. XIII Convegno della Rete Italiana LCA. VIII Convegno dell'Associazione Rete Italiana LCA. Il Life Cycle Thinking a supporto delle strategie di mitigazione e adattamento ai cambiamenti climatici. Università degli Studi Roma Tre, Dipartimento di Economia Aziendale, Roma, 13-14 giugno 2019.
3. Bacenetti J., (2019). Gestione dei residui di potatura del vigneto: Impatto ambientale di diversi scenari gestionali. XIII Convegno della Rete Italiana LCA. VIII Convegno dell'Associazione Rete Italiana LCA. Il Life Cycle Thinking a supporto delle strategie di mitigazione e adattamento ai cambiamenti climatici. Università degli Studi Roma Tre, Dipartimento di Economia Aziendale, Roma, 13-14 giugno 2019.
4. Bacenetti J., Lovarelli D., Falcone G. (2018) Consequential Life Cycle Assessment of electricity production from biogas in Italy. 6th International Conference on Sustainable Solid Waste Management. Naxos, 13-16 June 2018.
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8. Bacenetti J., Lovarelli D. (2018) LCA of different devices for pollutants emission reduction on agricultural tractors. The 12th Italian LCA Network Conference. Messina, 11-12 June 2018.

9. Baldini C, Bacenetti J., Guarino M. (2018). LCA of Two Small Agricultural Anaerobic Digestion Plants. I nternational Conference on Anaerobic Digestion. September 17-19, 2018. Lingotto Conference center, Torino, Italy
10. Baldini C, Bacenetti J., Fermo P., Guarino M. (2018). Implementing NH3 mitigation strategies in a pig farm: different approaches to evaluate the environmental impact. SETAC Europe 28th Annual Meeting, Rome, 2018.
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12. Bacenetti J., Lovarelli D., Pessina D. (2017). Life cycle assessment and environmental evaluation of agricultural mechanisation: potentiality, unsolved issues and possible interactions. 11th International AIIA Conference: July 5-8, 2017. Bari - Italy "Biosystems Engineering addressing the human challenges of the 21st century".
13. Pessina D., Facchinetti D., Bacenetti J., Spezia G. (2017). Performance of a hot-foam machine for the herbicide-free weeding of the vineyard. 11th International AIIA Conference: July 5-8, 2017. Bari - Italy "Biosystems Engineering addressing the human challenges of the 21st century".
14. Bacenetti J., Lovarelli D. (2017). Un nuovo approccio per la valutazione del consumo e dell'impatto ambientale sulla risorsa idrica nei sistemi agricoli. XI° Convegno dell'Associazione Rete Italiana LCA 2017 - Resource Efficiency e Sustainable Development Goals: il ruolo del Life Cycle Thinking. Siena, 22-23 giugno 2017.
15. Gislon G., Bava L., Bacenetti J., Tamburini A., Zucali M., Sandrucci A. (2017). Produzione di latte e impatto ambientale: effetto del sistema colturale e della razione somministrata alle bovine. XI° Convegno dell'Associazione Rete Italiana LCA 2017 - Resource Efficiency e Sustainable Development Goals: il ruolo del Life Cycle Thinking. Siena, 22-23 giugno 2017.
16. Bacenetti J., Giovenzana V., Niero M., Ingrao C., Guidetti R. (2017). Il prolungamento della shelf-life come strategia di mitigazione dell'impatto nelle filiere agro-alimentari: il caso studio del grissino integrale. XI° Convegno dell'Associazione Rete Italiana LCA 2017 - Resource Efficiency e Sustainable Development Goals: il ruolo del Life Cycle Thinking. Siena, 22-23 giugno 2017.
17. Bacenetti J., Lovarelli D., Fiala M. (2017). Environmental impact assessment of field mechanisation for a sustainable agriculture. 1st AXEMA-EurAgEng Conference, 25 February 2017, Villepinte, France.
18. Bacenetti J., Fusi A., Fiala M. (2016). Elettricità da impianti di biogas agricolo: impatto ambientale e strategie di mitigazione. X Convegno della Rete Italiana LCA, V Convegno dell'Associazione Rete Italiana LCA. Ravenna, 22-24 giugno 2016. Life Cycle Thinking, sostenibilità ed economia circolare. ISBN: 978-88-8286-333-3.
19. Bacenetti J., Lovarelli D., Fiala M. (2016). Comparison among different techniques for slurry spreading: effect on the environmental performance of maize cultivation. Proceedings of "Mechanization and new technologies for the control and the sustainability of agricultural and forestry systems". Alghero 29 May - 1 June. Associazione Italiana di Ingegneria Agraria, 2016. - ISBN 9791220010986. - pp. 73-76.

20. Fusi A., Bacenetti J., Gonzales-Garcia S., Moreira M.T., Feijio G., Fiala M. (2015) Environmental assessment of rice cultivation: a case study of fertilization with urban sewage. International conference on Life Cycle Assessment as reference methodology for assessing supply chains and supporting global sustainability challenges LCA FOR "FEEDING THE PLANET AND ENERGY FOR LIFE". Stresa, 06-07th October 2015 - Milano, Expo 2015, 08th October 2015.
21. Bacenetti J., Fusi A., Fiala M., Azapagic A. (2015) Environmental assessment of electricity generation from anaerobic digestion of agricultural waste. International conference on Life Cycle Assessment as reference methodology for assessing supply chains and supporting global sustainability challenges LCA FOR "FEEDING THE PLANET AND ENERGY FOR LIFE". Stresa, 06-07th October 2015 - Milano, Expo 2015, 08th October 2015
22. Bacenetti J., Negri M., Fiala M., Bocchi S. (2015). Life Cycle Assessment of Organic Rice Production System in Northern Italy. Second International Conference on Systems of Organic Rice Production, 1-4 Settembre 2015, Pavia
23. Bacenetti J., Fiala M. (2014). Electricity Production from Anaerobic Digestion of Animal Slurries in a Farm Scale Plants. In: Proceedings of the 4th World Sustainability Forum, 1 - 30 November 2014. p. 1-7, Basel: Sciforum Electronic Conference Series, doi: 10.3390/wsf-4-g00
24. González-García S., Fusi A., Bacenetti J., Feijoo G., Fiala M., Guidetti R., Porro A., Bocchi S., Moreira M.T. (2013). Assessing environmental impacts of rice production in Italy. In: LCA in market, research and policy: harmonisation beyond standardisation. p. 101-103, SETAC;
25. Fusi A., Bacenetti J. (2014). Confronto tra modelli per la stima delle emissioni da fertilizzanti : il caso del mais da granella. In: 8. Convegno della Rete Italiana LCA: i nuovi orizzonti dell'LCA : verso un approccio sistemico e integrato alla progettazione di prodotti, processi e servizi. p. 168-175, Roma:ENEA, ISBN: 978-88-8286-306-7, Firenze, 2014
26. Bacenetti J., Fusi A., Fiala M. (2014). Impatto ambientale delle operazioni agricole di campo : effetto della scelta della macchina operatrice e delle condizioni pedologiche. In: I nuovi orizzonti dell'LCA : verso un approccio sistemico e integrato alla progettazione di prodotti, processi e servizi. p. 183-189, ENEA, ISBN: 9788882863067, Firenze, 2014
27. Bacenetti J., Fusi A., Guidetti R., Fiala M. (2013). Valutazione ambientale della produzione di elettricità da digestione anaerobica di reflui zootecnici. In: Life Cycle Assessment e ottimizzazione ambientale: esempi applicativi e sviluppi metodologici. p. 141-147, ENEA, ISBN: 978-88-8286-292-3, Milano, 2013
28. Bacenetti J., A. Mena, Negri M., P. Cantarella, S. Bocchi, Fiala M. (2012). Energetic and Environmental Balance of a Biogas Plant in Northern Italy. In: Proceedings CIGR-AgEng 2012 International Conference on Agricultural Engineering. Valencia, 2012, Valencia:CIGR-AgEng, ISBN: 8461599284
29. Bacenetti J., Fiala M. (2011). Short Rotation Coppice in Italy: a model to asses economic, energetic and environmental performances of different crop systems. In: Proceeding of "World Renewable Energy Congress 2011", 8-13 May 2011, Linköping (Sweden). p. 2008-2015, Linköping: Linköping University Electronic Press, ISBN: 9789173930703, doi: 10.3384/ecp11057208

30. Bacenetti J., V. Giovenzana, R. Beghi, Guidetti R., Fiala M. (2011). Valorizzazione dei residui di potatura per la riduzione dei consumi energetici in cantina. In: Gestione e controllo dei sistemi agrari e forestali. Belgirate, 2011, les éd, ISBN: 9788890627309
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32. Fiala M., Bacenetti J. (2009). Filiere agro-energetiche a confronto: bilancio economico, energetico e ambientale. In: IX Convegno Nazionale dell'Associazione Italiana di Ingegneria Agraria: "Ricerca e innovazione nell'ingegneria dei biosistemi agro-territoriali". 12-16 settembre 2009, Ischia Porto, Napoli, ISBN: 978-88-89972-13-7
33. Fiala M., Bacenetti J. (2008). Il trapianto di astoni di pioppo. In: Convegno Nazionale AIIA IV Sezione: La produzione di energia da biomasse agroforestali è sempre una proposta attuale?: Udine, 4-5 Dicembre 2008. p. 83-84, ISBN: 978-88-903361-0-2, Udine, 2008;
34. Fiala M., Bacenetti J. (2008). Production cost and profit of chipped wood from poplar short rotation. In: AgEng2008: Agricultural and biosystems Engineering for a Sustainable World. Hersonissos - Crete (Greece), 2008.

Invited talks

10 March 2017 - Title: "Life cycle assessment e valutazione dell'impatto delle filiere agricole: potenzialità e limiti", Host institution: Dipartimento del Territorio e Scienze forestali, ***University of Padua***

12-19 March 2017 - Title: "Life cycle assessment of electricity production from anaerobic digestion plants", Host institution: Department of Chemical Engineering, ***Universidad de Santiago de Compostela (Spain)***

15 May 2017 - Title: "Evaluation of the environmental impact of agro-food products by life cycle assessment: italian case studies", Host institution: Dipartimento di scienze agrarie, alimentari ed ambientali, ***Università Politecnica delle Marche***

12 February 2018 - Title: "LCA application to Italian agro-food and agro-energy production processes", Host institution: ***JOINT RESEARCH CENTRE*** - EUROPEAN COMMISSION DIRECTORATE-GENERAL - Sustainable Resources Bio-Economy Unit

12-19 March 2017 - Title: "Life cycle assessment of electricity production from anaerobic digestion plants", Host institution: Department of Chemical Engineering, UNIVERSIDAD DE SANTIAGO DE COMPOSTELA (Spain)

6-13 March 2019 - Title: "Life cycle assessment of Italian agro-food production systems", Host institution: Department of Chemical Engineering, UNIVERSIDAD DE SANTIAGO DE COMPOSTELA (Spain)

Oral Presentations in the last 3-years

1. **Bacenetti J.**, (2019). Environmental impact assessment of different solutions of pruning residues management in vineyard. ANQUE-ICCE 3, 3rd INTERNATIONAL CONGRESS OF CHEMICAL - ANQUE-ICCE-CIBIQ 2019.
2. **Bacenetti J.**, Giovenzana V., Niero M., Ingrao C., Guidetti R. (2017). Il prolungamento della shelf-life come strategia di mitigazione dell'impatto nelle filiere agro-alimentari: il caso studio del

grissino integrale. XI° Convegno dell'Associazione Rete Italiana LCA 2017 - Resource Efficiency e Sustainable Development Goals: il ruolo del Life Cycle Thinking. Siena, 22-23 giugno 2017

3. **Bacenetti J.**, Falcone G., (2017). Electricity from biogas in Italy: Environmental consequences related to the elimination of economic subsidies. SETAC Europe 23rd LCA Case Study Symposium «Consequential LCA for decision support» 27-28 November 2017, Barcelona
4. **Bacenetti J.**, Lovarelli D., Pessina D. (2017). Life cycle assessment and environmental evaluation of agricultural mechanisation: potentiality, unsolved issues and possible interactions. 11th International AIIA Conference: July 5-8, 2017. Bari - Italy "Biosystems Engineering addressing the human challenges of the 21st century".
5. **Bacenetti J.**, Lovarelli D., Fiala M. (2016). Comparison among different techniques for slurry spreading: effect on the environmental performance of maize cultivation. Proceedings of "Mechanization and new technologies for the control and the sustainability of agricultural and forestry systems". Alghero 29 May - 1 June. Associazione Italiana di Ingegneria Agraria, 2016.n/a

XII. LANGUAGES

Mother Tongue: Italian.

Other:

LANGUAGE	**ENGLISH**
READING SKILLS	Advanced
WRITING SKILLS	Good
SPEAKING	Good

LANGUAGE	**SPANISH**
READING SKILLS	Good
WRITING SKILLS	Good
SPEAKING	Good

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali".

Data 30/07/2019 Luogo MILANO