

Ramoon Barros Lovate Temporim

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WORK EXPERIENCE

November 2021 – 2023

Academic Research

Interuniversity Research Center on Pollution and Environment "Mauro Felli" and Biomass Research Centre

Dr. Franco Cotana and Andrea Nicolini: Via Goffredo Duranti, 67, 06125 Perugia PG, Italy. Email: cotana@crbnet.it, andrea.nicolini@unipg.it

- The work encompasses the analysis and optimization of the environmental performance of technologies utilized in the production of bioenergy, in addition to products and services within the industrial sector (specifically the food sector, potable water distribution, and refrigeration). These analyses are conducted through the implementation of Life Cycle Assessment methodologies.

March 2021 – September 2021

Project Management for Research and Innovation

Ayming – Business performance consulting

Emma Balayre and Bastien Roca: Avenue Rene Cassin, 55, Lyon, Auvergne-Rhone-Alpes, France. Email: ebalayre@ayming.com, broca@ayming.com

- I was involved in creating and managing innovation projects within the European programs Horizon 2020 and Horizon Europe at the Innovation Department. This included defining project stages, organizing meetings, setting action plans and deadlines, monitoring projects, engineering, and proposal development.
- Specific activities included proposal positioning, technical environment assessment, knowledge mapping, partnership consolidation, evaluation of the state-of-the-art and market, demonstrating ambition and impact, defining pathways for broader results and impacts, communication measures, dissemination, and monitoring project actions in relation to the call.

November 2016 - April 2017

Quality Control

Rede Supermarket - Floresta Trade and Industry S.A.

Camila Guimaraes. Via: Rodovia Lúcio Meira, s/n, KM 11 BR 393, Volta Redonda, RJ, Brazil. E-mail: camila.guimaraes@florestafacil.com.br; Tel.: +55 24 98821 3442

- Implementation of Good Manufacturing Practices through assessment, training and guidance in all areas of supermarkets chain (warehouses, sales areas, processing areas and common areas).
- The activities involved data collection (organization, processing standards, maintenance of equipment and facilities and use of PPE) followed by decision-making with supervisors.

September 2016 - November 2016

Quality Control

Café Faraó LTDA.

Sandra Fernandes. Via: Rodovia Lúcio Meira, KM 13, São Luiz, Volta Redonda, RJ, Brazil. E-mail: info@cafefarao.com.br; Tel.: +55 24 99905 0901

- Sampling and verification of the quality standard (the type of coffee, weighing, labelling) of the final product and packaging, during the production process. Participation in the process of re-evaluation and sizing of PPE according to the environmental risk measurement reports (noise and breathable dust), in addition to the revaluation of the requirements for the environmental licence (release of effluent, noise emissions, waste disposal, odour control).

EDUCATION AND TRAINING

2018-2021

Ph.D. (Industrial Doctorate Programme)

Energy and Sustainable Development

University of Perugia

Interuniversity Research Centre on Pollution and the Environment "Mauro Felli" and Biomass Research Centre
Via Goffredo Duranti, 67, 06125 Perugia PG

Development of projects in the academic sector focused on the bioenergy production.

In the academic and private sectors, application of the Life Cycle Assessment methodology in order to optimize processes in terms of environmental impacts and energy demand.

2018

Academic Research Internship

University of Perugia

Department of Civil and Environmental Engineering
 Via Goffredo Duranti, 67, 06125 Perugia PG
 Project: Organic Products Supply Chain in Italy
 Coordinator: Prof. Flaminia Ventura

2010 - 2017 **Production Engineering
 (Certified Agribusiness Production Engineer)**

Federal Fluminense University

Av. dos Trabalhadores, 420 – Vila Santa Cecília - Volta Redonda RJ - - CEP:27255125.

- Degree course focused on the fields of management, administration, quality assurance, production systems, processing, handling, storage and transport of agribusiness products, from raw materials to final consumption.

- **Academic Exchange: Agrifood Industries Engineering**
 University of Santiago de Compostela (Spain)

Course and scholarship funded by CNPq (National Council for Scientific and Technological Development) through the exchange program "Science without Borders" in 2012/2013. Duration 12 months.

- **Undergraduate Research Assistant** (Scientific introduction program)

Project: Electrokinetic Technique for Remediation of Soils Contaminated with Heavy Metals.

Year: 2014/2015. 12 months. Research grant financed by FAPERJ (Carlos Chagas Filho Foundation for Research Support of the State of Rio de Janeiro).

The project was carried out to evaluate the efficiency of, and optimize the use of, the electrokinetic technique for the remediation of soils contaminated with zinc and cadmium.

- **Undergraduate Research Assistant** (Scientific introduction program)

Project: Determination of the kinetic parameters in transformation of food products.

Year: 2015.

This project aimed to evaluate the non-isothermal methodology to obtain kinetic parameters of the transformations of food during its processing. In this case, the evaluation of the colour change was studied in order to use this parameter as a product processing control parameter during the roasting of coffee.

2008 - 2009 **Occupational Safety Technician**

SENAI – National Service of Industrial Apprenticeship

- Technical course focused on the study of the set of rules, actions and preventative measures aimed at improving work environments, and the prevention of occupational diseases and accidents at work.

PERSONAL SKILLS

Languages Italian, English, Portuguese and Spanish

Communication skills

I relate to people of different nationalities and cultures, thanks to my experience gained abroad. I work well in groups, a skill that I developed during my time as a research assistant, and in other professional and academic roles.

In the private sector as in the academic field, I have worked with a various sector working together as engineering, chemistry, biotechnology and economics, requiring a constant flow of interdisciplinary communication between these different areas. For that, detailed reports and digital tools - Trello, MS Teams, One Note - were constantly used to update in real time these sectors. Else, the use of different languages - which include English, Spanish, Portuguese, Italian – were used during these activities.

Organizational / managerial skills

I am organized and can work independently, setting priorities and assuming responsibilities.

I developed these skills during my quality control position, where I was responsible for reorganizing the supermarket areas and training employees in operational procedures to improve quality standards and process efficiency. In this position, I also developed strong people management skills working with employees, supervisors and managers. I was responsible for collecting data in stores, establishing priorities to be actioned, and implementing new procedures and practices.

Job-related skills

- Project management;
- Life Cycle Assessment;
- Collecting and analyzing data;

- Detailed report;
- Creating/preparing action plans;
- Preparing standard operating procedures.

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient User	Proficient User	Independent user	Independent user	Independent user

- Proficient in the use of SimaPro software for preparing LCA models for environmental impact analysis.
- Intermediate skills in using Minitab statistical analysis software.
- Proficient in the Microsoft Office Suite, with particular use of Excel for processing statistics and calculations of experiments performed in the laboratory. Use of Word and PowerPoint for presentations and academic reports. Basic knowledge of Access.
- Basic skills in the use of the Geographic Information System (GIS) software, Quantum Gis, acquired during studies at the Department of Agroforestry Engineering of the Polytechnic School - University of Santiago de Compostela.
- Other software and programming language: Python Programming Language, MS Visual Studio, Origin, Mendeley and MS Visio.

Publications

Published

- [Life Cycle Assessment of Polyol Production from Lignin via Organosolv and Liquefaction Treatments](https://doi.org/10.3390/su152215905). Cavalaglio, G.; Mecca, I.; Iodice, P.; Giannoni, T.; Gelosia, M.; Nicolini, A.; Barros Lovate Temporim, R. Sustainability 2023, 15, 15905. <https://doi.org/10.3390/su152215905>.
- [Design and performance analysis of a small-scale prototype water condensing system for atmospheric emissions abatement](#). Franco Cotana, Valentina Coccia, Ramoon Barros Lovate Temporim, Leandro Lunghi, Andrea Nicolini, Anna Magrini, Daniele Dondi, Dhanalakshmi Vadivel, Marco Cartesegna. XXIII Congresso CIRIAF. 2023.
- [Life Cycle Assessment of Cynara cardunculus L. -Based Polygeneration and Biodiesel Chains](https://doi.org/10.3390/su142113868). Barros Lovate Temporim, R., Cavalaglio, G., Petrozzi, A., ...Cotana, F., Nicolini, A. Sustainability (Switzerland), 2022, 14(21), 13868. DOI: <https://doi.org/10.3390/su142113868>.
- [Life Cycle Assessment and Energy Balance of a Polygeneration Plant Fed with Lignocellulosic Biomass of Cynara cardunculus](https://doi.org/10.3390/en15072397). L. Temporim, R.B.L., Cavalaglio, G., Petrozzi, A., ...Nicolini, A., Cotana, F. Energies, 2022, 15(7), 2397. DOI: <https://doi.org/10.3390/en15072397>.
- [Performance of a retrofitting solution for the reduction of particulate matter in small sized pellet stoves](#). Cotana, F., Coccia, V., Temporim, R.B.L., Lunghi, L. 2022 IEEE Workshop on Metrology for Agriculture and Forestry, MetroAgriFor 2022 - Proceedings, 2022, pp. 12–16. DOI: 10.1109/MetroAgriFor55389.2022.9965110.
- [Acid-catalyzed steam explosion for high enzymatic saccharification and low inhibitor release from lignocellulosic cardoon stalks](https://doi.org/10.1016/j.bej.2021.108121). Cavalaglio, G., Gelosia, M., Giannoni, T., Barros Lovate Temporim, R., ... Cotana, F., Bertini, A. Biochemical Engineering Journal, 2021, 174, 108121. DOI: <https://doi.org/10.1016/j.bej.2021.108121>.
- [Preliminary LCA of a polygeneration plant fed with lignocellulosic biomass](#). Maurizio Cellura, Francesco Asdrubali, Franco Cotana, Andrea Nicolini, Alessandro Petrozzi, Ramoon Barros Lovate Temporim. XXI Congresso CIRIAF. 2021.
- [A prototype plant for oilseed extraction: Analysis of mass and energy flows](https://doi.org/10.3390/su12229786). Temporim, R.B.L., Petrozzi, A., Coccia, V., Cotana, F., Cavalaglio, G. Sustainability (Switzerland), 2020, 12(22), pp. 1–11, 9786. DOI: <https://doi.org/10.3390/su12229786>.
- [Industrial activity mass and energy flows analysis: oil seeds extraction prototype plant in S. Apollinare \(PG\)](#). A. Petrozzi, R. Barros Lovate Temporim, G. Cavalaglio, V. Coccia, F. Cotana. XX Congresso CIRIAF. 2020.

Under Review

- [Performance Analysis and Life Cycle Assessment of a Passive Cyclone System for Mitigating Particulate Matter Emissions in Residential Heating Systems](#). Ramoon Barros Lovate Temporim, Valentina Coccia, Giacomo Fabbrizi, Tommaso Giannoni, Alessandro Paglianti, Leandro Lunghi, Andrea Nicolini and Franco Cotana. Renewable Energy, 2023.
- [Assessing the Environmental Performance of Optimized Commercial Refrigerators with Alternative Refrigerants and IoT System: A Cradle-to-Grave Life Cycle Assessment](#). Ramoon Barros Lovate Temporim, , Alessia Di Giuseppe, Fabiana Frota de Albuquerque Landi and Andrea Nicolini. Journal of Cleaner Production, 2023.

Driving license

A and B

Personal Information

I authorize the processing of my personal data pursuant to Legislative Decree 30 June 2003, n. 196 "Code regarding the protection of personal data". 21/12/2023.

