Nicolas Bertoldo

Environmental engineer

	Working experience
, ,	PhD Fellow in Sustainability in Public Procurement, Politecnico di Milano, Materials for Energy and Environment lab, Milan, Italy. Development of a Life cycle thinking-based methodology to be used in Sustainable Public Procurements.
04/00/0005	Supervisor Prof. Giovanni Dotelli.
, ,	Teaching assistant , <i>Oulu University</i> , Oulu, Finland. ADMA3 Summer School on Sustainability Assessment (5 ECTS).
, ,	Visiting PhD , <i>Aalborg University</i> , Aalborg, Denmark. Circular Public Procurement.
, ,	Teaching assistant , <i>Politecnico di Milano</i> , Milan, Italy. Course: Sustainable Materials for Architecture, Prof. Giovanni Dotelli.
, ,	Teaching assistant , <i>Politecnico di Milano</i> , Milan, Italy. Course: Life Cycle Assessment of Materials and Processes, Prof. Giovanni Dotelli.
02/05/2022 - 01/08/2022	
	Greenhouse Gases inventories, Sustainability reporting (GRI), CDP questionnaire (Climate change and water security).
' . ' .	Thesis Work , <i>STIIMA</i> , <i>National Research Council of Italy (CNR)</i> , Milan, Italy. Life Cycle Assessment, Ecodesign, Footwear, Environmental sustainability.
	Education
, ,	Master's degree in Environmental Engineering, $Polytechnic of Milan$, Milan, Italy, Grade: $102/110$.
	 Thesis title: "Ecoshoe: an Ecodesign tool to enhance environmental sustainability in the Footwear Industry". Supervisor: Prof. Giovanni Dotelli.
06/03/2017 - 23/07/2019	Bachelor's degree in Environmental Engineering, Polytechnic of Milan, Milan, Italy.
30/09/2013 - 24/02/2017	Bachelor's degree in Telecommunication Engineering , <i>Polytechnic of Milan</i> , Milan, Italy.
	Language skills
ltalian	Mother tongue
English	Level B2: Understanding Speaking Writing
	Skills
	JKIII3

Organisational I have good organisational skills gained in my previous experiences, as I can complete skills tasks within the indicated time frame both alone and in a team. I have an excellent ability to adapt thanks to my volunteering experience, where I have carried out many different activities and tasks.

Publications

- Bertoldo, N., Cefis, N., Ballini, A., Gallucci, F., Paris, E., & Dotelli, G. (2025). Mechanical and environmental analysis of concretes with partial replacement of clinker by coconut shell ashes. In Life-Cycle Performance of Structures and Infrastructure Systems in Diverse Environments (pp. 1519-1526). CRC Press.
- Bertoldo, N., Qureshi, T., Simpkins, D., Arrigoni, A., & Dotelli, G. (2024). Concrete with Organic Waste Materials as Aggregate Replacement. Applied Sciences, 14(1), 108.

Conferences

- 09/09/2025 Nicolas Bertoldo, Mette Alberg Mosgaard, Anja Marie Bundgaard and Giovanni Dotelli, 12/09/2025 "A Multi-Criteria Decision-Making tool to be used in Green and Circular Public Procurement", 12th International Conference on Life Cycle Management, Palermo, Italy, Oral presentation
- 15/07/2025 Nicolas Bertoldo, Nicola Cefis, Andrea Ballini, Francescantonio Gallucci, Enrico Paris 19/07/2025 and Giovanni Dotelli, "Mechanical and environmental analysis of concretes with partial replacement of clinker by coconut shell ashes", Ninth International Symposium on Life-Cycle Civil Engineering 2025, Melbourne, Australia, Oral presentation
- 25/06/2025 Nicolas Bertoldo, Nicola Cefis, Marco Blazina, Andrea D'Anna and Giovanni Dotelli, 27/06/2025 "Exploring the Use of Sewage Sludge Ash in Concrete: Assessing Mechanical Properties and Environmental Impacts", Sustainable Built Environment Conference, Zurich, Switzerland, Oral presentation
- 19/03/2025 Nicolas Bertoldo, Andrea Bortolotti and Giovanni Dotelli, "Life Cycle Assessment 21/03/2025 of Green Waste Management: Optimizing Composting Facility Distribution in the Milan Metropolitan Area", XIX Convegno dell'Associazione Rete Italiana LCA, Cortina d'Ampezzo, Italy, Oral presentation
- 03/07/2024 Nicolas Bertoldo, Alessandro Salvi and Giovanni Dotelli, "Integrating Aspen Plus Simu-05/07/2024 lations with Brightway 2.5 for Sustainable Process Design", 4th Life Cycle Innovation Conference (LCIC), Berlin, Germany, Oral presentation
- 05/09/2023 Nicolas Bertoldo, Sergio Sabbadini, Gianluca Ruggieri, Chiara Moletti and Giovanni 08/09/2023 Dotelli, "Retrofitting of Italian vernacular built stock with bio-based building materials: a viable solution to mitigate climate change effects?", The 11th International Conference on Life Cycle Management (LCM), Lille, France, Poster presentation
- 28/06/2023 Nicolas Bertoldo, Elisabetta Abbate, Davide Micillo, Francesco Airoldi, Carlo Brondi 30/06/2023 and Giovanni Dotelli, "The potential environmental benefit of the ecodesign approach: a case study in the footwear industry", XVI conference of the Associazione Rete Italiana LCA, Milan, Italy, Oral presentation
- 28/05/2023 Nicolas Bertoldo, Tanvir Qureshi, Dylan Simpkins, Alessandro Arrigoni and Giovanni 01/06/2023 Dotelli, "Sustainable Concrete from Recycled Organic Waste Materials as Aggregate Replacement", XVIII Italian national conference of the Associazione Italiana di Ingegneria dei Materiali (AIMAT) 2023, Catania, Italy, Poster presentation

Courses

9/04/2024 - Advanced LCA - Consequential and IO-Based Life Cycle Assessment (5 ECTS), Aalborg 15/05/2024 University, Aalborg, Denmark. Lecturers: Prof. Jannick Schmidt, Prof. Massimo Pizzol, Assoc. Prof. Søren Løkke, Assist. Prof. Agneta Ghose. Learning outcomes:

- o Consequential Life Cycle Assessment
- Stochastic LCA
- Input-Output LCA

24/04/2023 - Spatiotemporal Life Cycle Assessment with Brightway (2 ECTS), International Life 28/04/2023 Cycle Academy, Barcelona, Spain. Lecturer: Chris Mutel. Learning outcomes:

- Compare inventory modelling approaches in Brightway
- o Select tools from Brightway to create and modify inventory datasets
- o Choose and apply temporal distributions to inventory datasets
- o Analyse temporally differentiated life cycle inventory results
- o Describe approaches to distribute climate change impacts over time
- o Calculate temporal life cycle impact assessment of temporal inventory databases
- o Summarise approaches for creating region-specific inventory datasets
- o Outline calculation approaches regionalised life cycle impact assessment
- o Interpret regionalised life cycle impact assessment results

Authorization

I hereby authorise the processing of the personal data contained in my CV in accordance with Legislative Decree 196/2003 and EU Regulation 2016/679 (European Regulation concerning the protection of individuals with regard to the processing of personal data).