

# EUROPEAN CURRICULUM VITAE FORMAT



## DEGREES

- Dates (from – to)
- Name and type of organization providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

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- Level in national classification Exams

- Participation in seminars

- Dates (from – to)
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- Title of qualification awarded

**August 1, 2024**

University of Genoa (Italy)

Professional Practice Exam

Industrial Engineer

**AY2021/2022 – AY2023/2024**

University of Genoa (Italy)

Master of Science in Management Engineering

Master of Science in Management Engineering concluded with the thesis entitled: "Integration of AI and Industry 4.0 for production optimization in SMEs" (Original Title in Italian: "Integrazione dell'AI e dell'Industry 4.0 per l'ottimizzazione della produzione nelle PMI"). Supervisors: Prof. Marco Mosca and Eng. Federico Briatore. Final Grade: 110/110

Laurea Magistrale – Voto Finale 110/110

- Business Analytics
- Control and Management Systems (Sistemi di Controllo e di Gestione)
- Economics and Management (Economia e Management)
- Financial Engineering (Ingegneria Finanziaria)
- Game Theory (Teoria dei Giochi)
- Identification and Estimation (Identificazione e Stima)
- Industrial Marketing (Marketing Industriale)
- Industrial Plants 2 (Impianti Industriali 2)
- Industrial Plants Management 2 (Gestione degli Impianti Industriali 2)
- Innovation and Project Management (Gestione dell'innovazione e dei progetti)
- Methods for Corporate Finance (Metodi per la Finanza Aziendale)
- Methods of Transport and Logistics Planning (Metodi di Pianificazione Trasporti e Logistica)
- Models and Methods for Optimization and Control (Modelli e Metodi per l'Ottimizzazione e il Controllo)
- Operations Management (Gestione delle Operations)
- Planning Strategies and Systems (Strategie e Sistemi di Pianificazione)
- Techniques for Information and Security (Tecniche per l'Informazione e la Sicurezza)
- Technology and Entrepreneurship (Tecnologia e Imprenditorialità)
- 2022: Filippo Galbiati, Seminar on the history of Internet infrastructures in Italy
- 2022: Raffaele Scoccianti, Seminar on the innovation ecosystem of Protect and Gamble
- 2022: Davide Baldini, Seminar on the role of innovation in Adecco
- 2022: Alessandro Missoni, Biopharmaceutical innovation ecosystems: a theoretical model and the case of Lombardy

**AY2018/2019 – AY2020/2021**

University of Genoa (Italy)

Bachelor of Science in Management Engineering

Bachelor of Science in Management Engineering concluded with the thesis entitled: "Carbon pricing by governments and corporations for the management of climate transition" (Original Title

- Level in national classification Exams

- Participation in seminars

- Dates (from – to)

- Name and type of organization providing education and training
- Principal subjects/occupational skills covered

Title of qualification awarded

## LANGUAGE SKILLS

### MOTHER TONGUE

### OTHER LANGUAGES

- Reading skills
- Writing skills
- Verbal skills

in italian: "Il carbon pricing da parte di governi e imprese per la gestione della transizione climatica"). Supervisor: Prof. Marco Raberto. Final Grade: 97/110

Laurea Triennale - Voto Finale 97/110

- Business Culture (Cultura d'Impresa)
- Business Management (Gestione Aziendale)
- Chemistry (Chimica)
- Data Analysis and Visualization (Analisi e Rappresentazione dei Dati)
- Economics and Business Organization (Economia e Organizzazione Aziendale)
- Electrical Communications (Comunicazioni Elettriche)
- Electrical Engineering (Elettrotecnica)
- English Language (Lingua Inglese)
- English Language 2 (Lingua Inglese 2)
- Fundamentals of Computer Science (Fondamenti di Informatica)
- Geometry (Geometria)
- Industrial Logistics (Logistica Industriale)
- Industrial Plants
- Industrial Technical Design (Disegno Tecnico Industriale)
- Information Systems (Sistemi Informativi)
- Mathematical Analysis 1 (Analisi Matematica 1)
- Mathematical Analysis 2 (Analisi Matematica 2)
- Mathematical Physics (Fisica Matematica)
- Operations research (Ricerca Operativa)
- Physics (Fisica)
- Planning and Management of Transportation Systems (Pianificazione e Gestione dei Sistemi di Trasporto)
- Planning Methods for Maritime Logistics (Metodi di Pianificazione per la Logistica Marittima)
- Project Management
- Statistics (Statistica)
- Systems Theory (Teoria dei Sistemi)
- 2018: Eugenio Moggi, Python Vs Excel
- 2019: Giancarlo Cainarca, Seminar on the italian shoemaking district
- 2021: SPeRa Conference – voluntary work, solidarity, and enterprises in Africa
- 2021: Federico Papa, Company Presentation - Hitachi Rail
- 2021: Marco Zucca, Company Presentation - SoftJam
- 2021: Massimiliano Costacurta, Nicolò Pinna, Claire Thomas Gaggiotti, Seminar on ETL and BI tools of Rulux platform

## SY2013/2014 – SY2017/2018

Liceo Statale "G. Bruno" Albenga (Italy)

Classical Studies

School Leaving taken after five years of "Liceo".

### ITALIAN

### ENGLISH

B2 provided by CLAT – UniGe on June 30th, 2022

B2 provided by CLAT – UniGe on June 30th, 2022

B2 provided by CLAT – UniGe on June 30th, 2022

### FRENCH

Basic knowledge

## WORK EXPERIENCE

- Dates (from – to)
  - Name and address of employer
    - Type of business or sector
    - Occupation or position held
  - Main activities and responsibilities
  - Participation in seminars
- 13/02/2025 – Now**  
 Università degli Studi di Cagliari, Via Università 40, 09124, Cagliari  
 Research  
 Research fellow for the project titled “Evaluation of the energy performance of logistics nodes and networks,” funded by the National Recovery and Resilience Plan (PNRR), as part of the project “MOST - Sustainable Mobility Center (Centro Nazionale per la Mobilità Sostenibile - CNMS).” Supervisor: Associate Professor Pier Francesco Orrù
- Energy performance assessment of port vehicles
  - Life Cycle Assessment of Pecorino Sardo production
  - Co-supervisor of the following theses:
    - Jacopo Sanna, sviluppo di un modello di simulazione per l'ottimizzazione delle operazioni di magazzino (Development of a simulation model for the optimization of warehouse operations), Master degree in Mechanical Engineering
    - Stefano Perra, valutazione ambientale comparativa di due prodotti del settore lattiero-caseario tramite metodologia LCA (Comparative environmental assessment of two dairy products using the LCA methodology)
  - Excellence and Innovation in Food and Wine: Sardinia's Agri-food Sector as a Strategic Asset for Italy
  - Adam Taylor, Lecture WRC M-Sport Ford World Rally Team
  - Sardinia Sustainability Summit. Keynote Speakers:
    - Enrico Giovannini (former Minister of Infrastructure and Sustainable Mobility and former Minister of Labour and Social Policies)
    - Carmine Trecroci (President of RUS, Italian Network of Universities for Sustainable Development)
    - Gabriella Scapicchio (General Manager Fondazione NEST)
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- Dates (from – to)
  - Name and address of employer
    - Type of business or sector
    - Occupation or position held
  - Main activities and responsibilities
- 01/09/2025 – 06/09/2025**  
 EGS Pillay Engineering College (Autonomous), Old, East Coast Rd, Nagore, Thethi, Nagapattinam, Tamil Nadu 611002, India  
 Education  
 Lecturer during the ATAL Faculty Development Program (FDP) on Energy, Sustainability, and Climate Change
- Delivered a lecture entitled “Sustainability and Industry 4.0: Transforming the Future of Smart and Sustainable Systems”
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- Dates (from – to)
  - Name and address of employer
    - Type of business or sector
    - Occupation or position held
  - Main activities and responsibilities
- 10/01/2025 – 13/02/2025**  
 Federazione Italiana Di Atletica Leggera (FIDAL), Via Flaminia Nuova 830, Rome, Italy  
 Education  
 Federal coach within the “Scuola Attiva Junior” project at “Istituto Comprensivo Albenga 1 , Via degli Orti, Albenga
- Basic motor skills development
  - Promotion of knowledge and practice of athletics
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- Dates (from – to)
  - Name and address of employer
    - Type of business or sector
    - Occupation or position held
  - Main activities and responsibilities
- 01/10/2024 – 31/12/2024**  
 AGTech S.r.l., Via Fieschi 2/19, Genoa  
 Consulting  
 Market research consultant for the drone market  
 Conduct market research on the eVTOL drone market
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- Dates (from – to)
  - Name and address of employer
    - Type of business or sector
    - Occupation or position held
- 10/01/2024 – 22/03/2024**  
 Federazione Italiana Di Atletica Leggera (FIDAL), Via Flaminia Nuova 830, Rome, Italy  
 Education  
 Federal coach within the “Scuola Attiva Junior” project at “Istituto Comprensivo Savona 2 Sandro

- Main activities and responsibilities

## RESEARCH OUTPUT

Pertini", Via Verzellino 1°, Savona

- Basic motor skills development
- Promotion of knowledge and practice of athletics

### PUBLISHED

#### ○ CONFERENCES

- Briatore, F., and M. Braggio. "Resilience and Sustainability plants improvement through Maintenance 4.0: IoT, Digital Twin and CPS framework and implementation roadmap." *IFAC-PapersOnLine* 58.8 (2024): 365-370. Presented at the 6TH IFAC international workshop on advanced maintenance engineering, services and technology (AMEST2024), maintenance and asset lifecycle management for sustainable and resilient systems. DOI: <https://doi.org/10.1016/j.ifacol.2024.08.148>
- Braggio, M., & Briatore, F. A Big Data analytics and Artificial Intelligence framework to enhance industrial sustainability. Presented at the XXIX SUMMER SCHOOL "Francesco Turco" – Industrial Systems Engineering.
- Braggio, M., Mosca, R., & Mosca, M. The impact of new Technologies on resilience in Industrial Manufacturing: Smart Resilience framework. Presented at the XXIX AIDI Summer School "Francesco Turco" – Industrial Systems Engineering.
- Braggio, M., & Russo, M. L. (2024, November). A Bibliometric Analysis on Artificial Intelligence in the Energy Forecasting. In *2024 4th International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME)* (pp. 1-6). IEEE. DOI: [10.1109/ICECCME62383.2024.10796773](https://doi.org/10.1109/ICECCME62383.2024.10796773)
- Mosca, M., Mosca, R., & Braggio, M. (2025). Big Data and AI for Smart Maintenance: Literature review on the impact on plants Resilience. *Procedia Computer Science*, 253, 1959-1971. Presented at the 6TH International Conference on Industry 4.0 and Smart Manufacturing (ISM2024). DOI: <https://doi.org/10.1016/j.procs.2025.01.258>
- Briatore, F., & Braggio, M. (2025). Edge, Fog and Cloud Computing framework for flexible production. *Procedia Computer Science*, 253, 2206-2218. Presented at the 6TH International Conference on Industry 4.0 and Smart Manufacturing (ISM2024). DOI: <https://doi.org/10.1016/j.procs.2025.01.281>
- Braggio, M., Sorrenti, L., Melesse, T., Mosca, R., Arena, S., Orrù, P., Mosca, M., 2025. Improvement in the performance of Formula 1 cars [CoDIT 2025]

#### ○ JOURNAL

- Briatore, F., Mosca, M. T., Mosca, R. N., & Braggio, M. (2025). A Bibliometric Analysis on Artificial Intelligence in the Production Process of Small and Medium Enterprises. *AI*, 6(3), 54. DOI: <https://doi.org/10.3390/ai6030054>
- Peer, M. S., Melesse, T. Y., Orrù, P. F., Braggio, M., & Petrollese, M. (2025). Next-Generation CSP: The Synergy of Nanofluids and Industry 4.0 for Sustainable Solar Energy Management. *Energies*, 18(8), 2083. DOI: <https://doi.org/10.3390/en18082083>
- Melesse, T. Y., Peer, M. S., Ramasamy, S., Sivasubramaniyam, V., Braggio, M., & Orrù, P. F. (2025). Digital Twin for Energy-Intelligent Bakery Operations: Concepts and Applications. *Energies*, 18(14), 1-18. DOI: <https://doi.org/10.3390/en18143660>

### UNDER REVIEW

- Melesse, T., Braggio, M., Briatore, F., Pilloni, M., Mosca, M., Shameer M., Arena, S., Orrù, P., 2025. Conceptual Framework for Digital Twin Implementation in a Bakery. [XXIX SUMMER SCHOOL "Francesco Turco" – Industrial Systems Engineering]
- Mosca, M., Mosca, R., Clavarino, N., Melesse, T., Braggio, M., 2025. Intelligent Traffic Systems: A Digital Twin-Based Approach. [XXIX SUMMER SCHOOL "Francesco Turco" – Industrial Systems Engineering]
- Briatore, F., Arena, S., Orrù, P., Melesse, T., Alongi, P., Shameer, M., Chessa, F., Braggio, M., 2025. A Conceptual Framework for the Implementation of Industry 4.0 Systems in the Agricultural Sector. [XXIX SUMMER SCHOOL "Francesco Turco" – Industrial Systems Engineering]
- Braggio, M., Mosca, R., Delmonte, F., Melesse, T., Mosca, M., 2025. Locomotive Overhaul 4.0: A Synergistic Framework for Predictive and Adaptive Maintenance. [XXIX SUMMER SCHOOL "Francesco Turco" – Industrial Systems Engineering]
- Braggio, M., Laiolo, A., Melesse, T., Mosca, R., Arena, S., Mosca, M., Shameer, M., 2025. Flexible production 4.0. [ICECCME'25]

Participation in conferences

- Briatore, F., Marchesi S., Melesse, T., Orrù, P., Arena, S., Braggio, M., 2025. Conceptual framework for Smart 4.0 Hydroponic Farming: A Data-Driven Approach to Sustainable Agriculture. [ICECCME'25]
- Briatore, F., Sacchi, I., Melesse, T., Braggio, M., Arena, S., 2025. Workplace Safety Enhancement through Industry 4.0 Adoption [ISM 2025]
- Braggio, M., Melesse, T., Sanna, J., Shameer, M., Orrù, P., 2025. Simulation-Based Assessment of Warehouse Logistics: A Case Study in Beverage Distribution. [ISM 2025]
- Peer, M.S., Cau, G., Cascetta, M., Melesse, T.Y., Braggio, M., Petrollese, M., 2025. CFD and Experimental Validation of a Gas-Based Thermocline TES System for CSP Applications with Nanofluid Modeling Perspective [ATI 2025]
- 19-22 June 2024, Rhodes, Greece, 11<sup>TH</sup> International Conference on Sustainable Solid Waste Management.
- 04-06 November 2024, Maldives, 4<sup>TH</sup> International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME'24) [Online]
- 20-22 November 2024, Prague, Czech Republic, 6<sup>TH</sup> International Conference on Industry 4.0 and Smart Manufacturing (ISM2024) [Online]
- 15-18 July 2025, Split, Croatia, 11<sup>TH</sup> International Conference on Control, Decision and Information Technologies (CoDIT2025) [Online]

## LEADERSHIP EXPERIENCE

- Dates (from – to)
- Title of qualification
- Principal subjects/occupational skills covered

- Participation in seminars

### May 2024 – Now

Member of the FIDAL Youth Council within the European Athletics' Future Leaders Project

- Working in a coordinated and cohesive manner with the Youth Team of European Athletics on joint projects
- To be the reference body for youth athletics in order to listen to the requests and issues submitted by the regional and provincial committees
- Coordination of regional representatives
- Helping FIDAL solve various athletics-related issues by observing and discussing them from the perspective of young people
- 14/01/2025 – 22/01/2025: EA Leadership Course 2025, organized by European Athletics and led by Katrin Heyers, and Robin Schrödter
- 22/10/2024 - 12/11/2024: IOC 4-Week Learning Sprint. Topics covered:
  - IOC Young Leaders as AMBASSADORS of Olympism365
  - IOC Young Leaders as COMMUNITY MEMBERS – part of purpose-led Olympic partnerships
  - IOC Young Leaders as DESIGNERS of value-based projects
  - IOC Young Leaders as SOCIAL ENTREPRENEURS
- 08/06/2024 - 12/06/2024: IX edition of the Future Leaders Forum, at the Parco del Foro Italico in Rome:
  - Dobromir Karamarinov, Opening of the forum
  - Lord Sebastian Coe, The Future of Athletics
  - Karin Grute Movin, Necessity of a Future Leaders Forum
  - Katrin Heyers, Robin Schrödter, Who am I as a leader?
  - Lea Sprunger, Esther Akihary, Leadership in Athletics
  - Marko Vasic, Alessio Punzi, Sasho Belovski, Innovation in the running business
  - Donna Fraser OBE, Carlo Giardinetti, Elsa Arapi, Diversity in sports
  - Jakob Larsen, Alessio Gorla, Nicolas Launois, Technology and Innovation in Athletics
  - Scott Grace, Health and wellbeing
  - Luigi Onorato, Fan Engagement
  - Mathilde Grenet, Safeguarding in Sports
  - Christian Milz, Closing of the forum and MF open session

### Jan. 2024 – Now

Member of the athletes commission of FIDAL Liguria

- Advisory role for the improvement of the athletics system in the Liguria region
- Social Media management of the FIDAL Liguria channels
- Organization of webinars and meetings

- Dates (from – to)
- Title of qualification

#### **May 2019 – Now**

FIDAL Instructor

- Dates (from – to)
- Title of qualification

#### **Jan. 2017 – Now**

Official FICr Timekeeper

- Principal subjects/occupational skills covered

Provision of timing services and athlete data management during competitions

- Dates (from – to)
- Title of qualification

#### **2016 – 2017**

Provincial FIDAL Judge

#### **TECHNICAL SKILLS AND COMPETENCES**

##### Process mapping

- Bizagi

##### CAD

- MicroStation

##### Programming Language

- MATLAB
- Python
- RStudio

##### Office Management software

- MS Office Suite (MS Word, MS Excel, MS Powerpoint)
- OpenOffice and Similar

##### Optimization software, project management software, simulator and other

- @RISK
- Anylogic
- Extendsim (hint)
- FlexSim (hint)
- GeoGebra
- Lingo
- OpenLCA
- Plant Simulation
- Simul8 (hint)
- Vissim (hint)
- Visum (hint)

##### Screencasting and streaming app

- OBS Studio

##### Reference management and bibliometrics software

- VOSviewer
- Zotero

DRIVING LICENCE(S)

B

SOCIAL SKILLS  
AND COMPETENCES

2012: Swedish relay U14 regional Record  
 2015: Selected to compete in U16 cross-country national criterium  
 2015: Selected to compete in U16 outdoor track and field national criterium  
 2017: 2 Km racewalk senior regional Record  
 2017: 3 Km racewalk U18 regional Record  
 2017: 2 miles racewalk Senior regional Record  
 2018: 3 Km racewalk U23 regional Record  
 2019: 15 Km road racewalk U23 regional Record  
 2019: 20 Km road racewalk U20 regional Record  
 2020: 10 Km road racewalk Senior regional Record  
 2020: 2 Km racewalk Senior regional Record  
 2022: 20 Km road racewalk Senior regional Record  
 2022: 10 Km racewalk U23 regional Record  
 2022: 20 KM road racewalk bronze medal at U23 national championship  
 2023: 5 Km racewalk Senior regional Record  
 2016 - 2022: achieved the Entry Standards of youth national championship  
 2019 – NOW: achieved the Entry Standards of senior national championship