

CURRICULUM VITAE

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Alexandra Lagorio has developed her **research** and didactic activity in the field of the scientific disciplinary field ING-IND/17 IMPIANTI INDUSTRIALI MECCANICI in the position of research assignor at the University of Bergamo - Department of Management Engineering, Information and Production.

She started **teaching** at the University of Bergamo as a contract lecturer for the course of Logistics and Shipbuilders' Supply Chain Management (GASL), as an operator for the courses of Business Management and Logistics Systems (GASL) and Industrial Plants and as a tutor for the courses of Operations Management and Supply and Service Chain management (Supply and Service Chain management module), Integrated Logistics Systems and Business Management and Logistics Systems (GASL).

On the **scientific research** front, over the years he has focused his attention on issues related to urban logistics, supply chain management and industrial logistics, publishing works both individually and in collaboration in important journals of reference for the disciplinary sector. Recently, the focus of the research has been on the emerging issues of urban logistics and last mile with particular attention to operational aspects related to e-commerce, as well as the impact of the Industry 4.0 model on production and logistics processes.

As part of the **third mission activities**, he participated as research assignor and teaching tutor in the project "Bergamo 2.(035) - a New Urban Concept" co-financed by the University of Bergamo and the Italcementi Foundation (now the Pesenti Foundation) in 2013, currently underway and carried out in collaboration with the Harvard Graduate School of Design. The project aims to generate and implement project ideas within the smart city theme by involving both students from the various disciplines present at the University and directly the territory and the population.

PROFESSIONAL PROFILE

Current Position and Assignments

2014 - today	Member of CELS - Research Group on Industrial Engineering, Logistics, and Service Management within which he conducts research and technology transfer activities on issues related to logistics, supply chain and process optimization.
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Position and previous assignments

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| 02/2019 – 01/2020 | Research Fellow SSD ING-IND/17 - MECHANICAL INDUSTRIAL PLANTS at the Industrial Engineering Department of the University of Bergamo. Research Fellowship EXPERIENCED. |
| 02/2018 – 01/2019 | Research Fellow SSD ING-IND/17 - MECHANICAL INDUSTRIAL PLANTS at the Industrial Engineering Department of the University of Bergamo. Prometheus Research Fellowship entitled "Use of assessment techniques and methods for the maintenance and service of industrial machinery" funded by the Lombardy Region as part of the LINE R&D call. |
| 11/2013 – 11/2014 | Research Fellow SSD ING-IND/17 - MECHANICAL INDUSTRIAL PLANTS at the Industrial Engineering Department of the University of Bergamo. Research Fellowship Bergamo 2.035 - Urban Logistics |

Educational Titles

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| 2018 | PhD in ECONOMICS AND MANAGEMENT OF TECHNOLOGY (DREAMT) at the University of Bergamo and University of Pavia with a thesis entitled "Three essays on urban freight transport: models and tools for effective city logistics projects". |
| 2013 | Master's Degree in Transport and Logistics Engineering (LM 23) with the thesis entitled "Analysis of evolutionary scenarios of road traffic in urban areas: the case of Savona". |
| 2010 | Bachelor's Degree in Civil and Environmental Engineering |

Main areas of expertise and research

Urban logistics, E-commerce, Industrial logistics, Supply Chain Management, SCM process optimization, Inventory management and rationing, Logistics flow mapping, Demand management and forecasting, Warehouse design and management, Stakeholders' management.

Main methodological skills

Quantitative analysis, modelling and optimization of systems, Discrete Event Simulation (Discrete Event Simulation, Monte Carlo simulation), Analytical and numerical optimization methods, Maps with geographic information systems (GIS).

TEACHING ACTIVITY

Teaching activity in Bachelor, Specialist and Master's degree courses

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| 2020 | Practitioner of the Industrial Plants course - Bachelor's degree course in Management Engineering at the University of Bergamo |
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2019	Practitioner of the course of Business Management and Logistics Systems (GASL) - Bachelor's Degree in Management Engineering at the University of Bergamo
2019	Contract lecturer for the course "Logistics and Procurement of Construction Sites" - Master's Degree Course in Building Construction Engineering at the University of Bergamo
2016 -2019	Tutor of the Integrated Logistics Systems course - Master's Degree in Management Engineering from the University of Bergamo
2015 - 2019	Tutor of the courses of Business Management and Logistics Systems (GASL) and Operations Management and Supply and Service Chain management (Supply and Service Chain management module) - Master's Degree in Management Engineering (in English)

SUPERVISED MASTER THESIS AS CO-RAPPORTEUR
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Year	Title
2019	Analysis of the criteria involved for the localization of parcel lockers systems in Dalmine area
2019	Gestione degli stakeholder nei progetti di logistica urbana: il caso di studio della raccolta rifiuti ad Amsterdam
2018	La gestione delle scorte nel contesto della logistica ospedaliera
2018	Industry 4.0 and organizations: an empirical analysis of affected competences
2017	Urban Freight Fleet Composition Problem
2017	Quanto è social la supply chain? Una twitte(r) analysis
2017	Last Mile Delivery: La location strategica per i Parcel Lockers Caso studio Bergamo
2017	La fase distributiva nella filiera agroalimentare: la consegna del cibo nei centri urbani, le tecnologie abilitanti ed i casi di successo
2017	Ottimizzazione delle operazioni di carico/scarico delle merci in ambito urbano: il caso studio del quartiere Oude Pijp, Amsterdam
2016	Analisi della domanda di trasporto merci in ambito urbano: il caso di Bergamo
2016	Urban Logistics Ecosystem: design and validation of an empirical framework
2015	Stima volumi merci e veicoli entranti in città alta in caso di utilizzo di mezzi tradizionali ed elettrici
2015	Twenty years of urban consolidation centers projects: lesson learned for the city of Bergamo

SUPERVISED THREE-YEAR THESIS AS CO-RAPPORTEUR
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Year	Title
2020	L'evoluzione dei ruoli logistici nell'Industria 4.0
2019	Analisi della problematica dei resi nel contesto del mercato online
2019	Logistica 4.0: analisi delle nuove tecnologie a supporto dell'operatore
2017	Innovazioni e cambiamenti tecnologici nella supply chain: analisi delle aziende click and mortar
2016	Configurazione e strategie di supply chain per l'e-commerce
2016	Urban mining nuove strategie di gestione dei rifiuti urbani nella prospettiva della circular economy
2016	Il bike sharing: analisi del servizio di bici condivise a Bergamo
2015	The Last Mile Delivery: Pick-up Point and Parcel Locker
2014	Food waste: analisi internazionale e locale delle principali iniziative e strategie adottate
2013	Valutazione delle funzionalità di un software GIS (Geographic information system) per applicazioni in ambito logistico

VISITING

March 2017 – May 2017	Visiting at Ecole des Mines di Saint-Étienne, France (Host: Prof. Jesus Gonzalez-Feliu)
Febbraio 2018	Visiting at Amsterdam University of Applied Science, Netherlands, (Host: Prof. Simon de Rijke)

RESEARCH AND TECHNOLOGY TRANSFER PROJECTS
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Participation in international and national research projects funded on the basis of of competitive tendering

2018 - 2020	Participant as a researcher in the project Sustainable Industrialization of Territorial Ecosystem-CO-FINDUSs: collaboration Franco-Italienne pour une industrialisation durable des territoires, financed by the Regional Council of the Région Auvergne Rhône- Alpes (France). Lead partner institution: Ecole des Mines Saint-Etienne, France.
2018 - 2019	Participant as research assignor in the research project "PROMETEO" financed by Regione Lombardia in the field of the call R&D line for aggregations co-financed by the ROP ERDF 2014-2020.

Research projects not funded on the basis of competitive calls for tenders and technology transfer (client companies omitted for confidentiality of information, unless otherwise agreed)

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| 2015 - today | Teaching Tutor of the project "Bergamo 2.(035): Logistics and urban mobility in evolution. Models and experiences of sustainable and technologically advanced transport" at the University of Bergamo, funded by Fondazione Italcementi and in collaboration with Harvard Graduate School of design. |
| 2018 -2019 | Participant as a researcher in the "Competences 4.0" project in collaboration with Confindustria "Il Club dei 15" for the study of the impact of 4.0 technologies on company skills and roles. |
| 2018 | Participant as a collaborator in the project for the realization of a study of the logistic flows of the plant in relation to the introduction of a new painting plant (8 months). |

OTHER ACTIVITIES

Organisation of scientific conferences/sessions

- Member of the National Organizing Committee of the 16th IFAC Symposium on Information Control Problems in Manufacturing (INCOM 2018), Bergamo, 11-13 June 2018.
- Organizer and chair of the special session "Last-Mile Supply Chains", in collaboration with Prof. Alberto De Marco (Politecnico di Torino) within the 16th IFAC Symposium on Information Control Problems in Manufacturing (INCOM 2018). Bergamo, 11-13 June 2018.

Dissemination activities, seminars and third mission

- Speech entitled "Logistics today between real and virtual" at the conference "A Scuola di Logistica - per un rete produttivo e distributivo", 27 October 2018.
- Organization and intervention workshop "Digitization of supply chain information and application cases in the supply chain" within the project AGROFUTURE (Operation 1.2.01 Demonstration projects and information actions), 9 April 2019.

Participation in committees of magazines and associations

- Membro di AIDI Juniores, Associazione Italiana dei Docenti di Impianti Industriali
- Reviewer per riviste scientifiche internazionali quali International Journal of Production and Logistics Management, Supply Chain Forum, Computers and Industrial Engineering, International Journal of Production Research, International Journal of Logistics Research and Application.

PUBBLICATION

Scientific papers

- A.1 Pinto, R., Zambetti, M., **Lagorio, A.**, & Pirola, F. (2019). A network design model for a meal delivery service using drones. *International Journal of Logistics Research and Applications*, 1-21. DOI: 10.1080/13675567.2019.1696290.

- A.2 Pinto, R., **Lagorio, A.**, & Golini, R. (2019). The location and sizing of urban freight loading/unloading lay-by areas. *International Journal of Production Research*, 57(1), 83-99. DOI: 10.1080/00207543.2018.1461269.
- A.3 Rondini, A., **Lagorio, A.**, Pinto, R., & Pezzotta, G. (2018). A multi-criteria decision making approach for prioritising product-service systems implementation in smart cities. *International Journal of Management and Decision Making*, 17(4), 415. DOI: 10.1504/IJMDM.2018.095729.
- A.4 Golini, R., Guerlain, C., **Lagorio, A.**, & Pinto, R. (2018). An assessment framework to support collective decision making on urban freight transport. *Transport*, 33(4), 890-901. DOI: 10.3846/transport.2018.6591.
- A.5 **Lagorio, A.**, Pinto, R., & Golini, R. (2018). Food waste reduction in school canteens: Evidence from an Italian case. *Journal of Cleaner Production*, 199, 77-84. DOI: 10.1016/j.jclepro.2018.07.077.
- A.6 **Lagorio, A.**, Pinto, R., & Golini, R. (2016). Research in urban logistics: a systematic literature review. *International Journal of Physical Distribution & Logistics Management*, 46(10), 908–931. DOI: 10.1108/IJPDLM-01-2016-0008

Book Chapters

- B.1 **Lagorio, A.**, Pinto, R. Golini, R. (2014). Cap. 6 Bergamo Logistica (pp. 136-171), Bergamo 2.035, a new urban concept, ISBN 978-88-89555-36-1.
- B.2 Cavalieri, S., **Lagorio, A.**, Pezzotta, G., Pinto, R., Rondini, A. (2018). Identificare e Progettare Servizi Innovativi per la collettività in ambito smart city. In *Città come frontiere creative. Visioni, pratiche e progetti*, L'Harmattn Italia, Torino. ISBN: 978-88-7892-346-1.

National and International Conference Proceedings

- C.1 Cimini, C., **Lagorio, A.**, Pirola, F., & Pinto, R. (2019). Exploring human factors in Logistics 4.0: empirical evidence from a case study. *IFAC-PapersOnLine*, 52(13), 2183-2188.
- C.2 Sala, R., **Lagorio, A.**, Pirola, F., & Pinto, R. (2019). Logistic services in the Industry 4.0 era: identification and analysis of the requirements. In *24th Summer School "Francesco Turco"-Industrial Systems Engineering 2019* (pp. 352-358).
- C.3 **Lagorio, A.**, Gonzalez-Feliu, J., & Pinto, R. (2018). Urban freight demand estimation: A probability distribution based method. In *7th International Conference on Information Systems, Logistics and Supply Chain, ILS 2018* (pp. 415-422).
- C.4 Pinto, R., **Lagorio, A.**, & Golini, R. (2018). Urban Freight Fleet Composition Problem. *IFAC-PapersOnLine*, 51(11), 582-587.
- C.5 Zenezini, G., **Lagorio, A.**, Marco, A. De, & Golini, R. (2018). The Collection-And-Delivery Points Implementation Process from the Courier, Express and Parcel Operator's Perspective. *IFAC-PapersOnLine*, 51(11), 594–599.
- C.6 Rondini A., **Lagorio, A.**, Pezzotta G., Pinto R. (2018). Comparison between the TOPSIS method and a Condorcet winner based voting method for the evaluation and selection of new services. *Proceeding of the XXII Summer School "Francesco Turco"*, Palermo (PA), 12-14 September 2018.
- C.7 **Lagorio A.**, Zenezini G., Mangano G., Pinto R. (2018). A Systematic Review of Innovative Technologies adopted in Logistics Management *Proceeding of the XXII Summer School "Francesco Turco"*, Palermo (PA), 12-14 September 2018.
- C.8 **Lagorio, A.**, Pinto, R. (2018) Logistics in the food and grocery retail market: an overview on main issues and future research directions. In *Proceedings of*

- NECTAR Cluster 2: Policy and Environment Conference. E-groceries, digitalization and sustainability: Which governance, planning and regulation mix do our cities need? Molde University College, Britvegen 2, 6411 Molde, Norway, October 11th and 12th. 2018.
- C.9 **Lagorio, A.**, Pinto, R., Golini, R. (2017) Urban Logistics Ecosystem: A system Framework for stakeholders in urban freight transport Projects. Proceeding of the 20th IFAC World Congress, Toulouse, France, 9-14 July 2017.
- C.10 Estrada, A., Romero, D., Pinto, R., Pezzotta, G., **Lagorio, A.**, & Rondini, A. (2017). A Cost-Engineering Method for Product-Service Systems Based on Stochastic Process Modelling: Bergamo's Bike-Sharing PSS. *Procedia CIRP*, 64, 417–422. <https://doi.org/10.1016/j.procir.2017.03.066>.
- C.11 Zambetti, M., **Lagorio, A.**, Pinto, R. (2017). A design model for food ordering and delivery services. Proceeding of the XXII Summer School "Francesco Turco", Palermo (PA), 13-15 September 2017. (Best paper Award)
- C.12 Rondini, A., **Lagorio, A.**, Pezzotta, G., Pinto, R., (2017). Adopting a Multi Criteria Decision method for the introduction of PSSs in the smart city context. Proceeding of the XXII Summer School "Francesco Turco", Palermo (PA), 13-15 September 2017.
- C.13 Rondini, A., **Lagorio, A.**, Pinto, R., Pezzotta, G. (2016). Exploiting the Service Engineering Methodology to re-engineer Bergamo's bike sharing product service system. Proceeding of the XXI Summer School "Francesco Turco", Napoli (NA), 13-15 September 2016.
- C.14 **Lagorio, A.**, Pinto, R., Golini, R. (2016). Urban Distribution Centers: doomed to fail of optimal solutions for last mile deliveries? Proceeding of the XXI Summer School "Francesco Turco", Napoli (NA), 13-15 September 2016.
- C.15 Pinto, R., Golini, R., & **Lagorio, A.** (2016). Loading/unloading lay-by areas location and sizing: a mixed Analytic-Monte Carlo simulation approach. *IFAC-PapersOnLine*, 49(12), 961-966. (Best Paper Award Finalist)
- C.16 F. Forno, R. Golini, M. Kalchschmidt, **A. Lagorio**, S. Maurano, E. Saccenti (2015). Alternative Food Production Systems: the case of "Il Castelletto". Proceeding of the OSE Conference 2015 "Organizing Supply Chain Processes for Sustainable Innovation in the Agri-Food Industry", Milan, 8-10 October.
- C.17 Golini, R., Guerlain, C., **Lagorio, A.** & Pinto, R. (2015). An assessment framework for city logistics in mid-sized towns. Proceeding of URBE (URban freight and BEhaviour change) Conference 2015, ROMA, 1-2 October 2015.
- C.18 Pinto, R., **Lagorio, A.** & Golini, R. (2015). Urban freight transport in an Italian mid-sized city: the Bergamo case from inception to stakeholders' involvement. Proceeding of URBE (URban freight and BEhaviour change) Conference 2015, ROMA, 1-2 October 2015.
- C.19 **Lagorio, A.**, Pinto, R., Golini, R. (2015). City logistics research streams: a systematic literature review. Proceeding of the XX Summer School "Francesco Turco", Napoli (NA), 16-18 September 2015.
- C.20 **Lagorio, A.**, Pinto, R., Golini, R. (2014). City logistics issues in small-medium cities: an overview of the Bergamo case from an industrial engineering perspective. Proceeding of the XIX Summer School "Francesco Turco", Senigallia (AN), 9-12 September 2014.

National sector magazines

- D.1 **Lagorio, A.**, Zenezini, G., Mangano, G., Pinto, R. (2019). Tecnologie 4.0 nella logistica: c'è ancora spazio per l'innovazione? *Logistica Management*, 300, 36-40
- D.2 **Lagorio, A.**, Pinto, R. (2019). Il ruolo della logistica nella filiera agroalimentare, *Logistica Management*, 296, 46-50.
- D.3 Boffelli, A., Cimini, C., **Lagorio, A.**, Kalchschmidt, Pinto, R. (2019). Le competenze nell'industria 4.0: ruoli tecnici sempre più necessari, *Sistemi&Impresa*, 6, 38-44.
- D.4 Carissimi, G., Boffelli, A., Cimini, C., Dotti, S., **Lagorio, A.** (2019). L'industria 4.0 entra nel Tessile. Come cambiano le competenze. *Sistemi&Impresa*, 8, 54-59.
- D.5 **Lagorio, A.**, Pinto, R. Golini, R. (2014). Il ruolo della logistica urbana delle merci nella città di domani, *Sistemi&Impresa*, Jan/Feb 2014, N° 1 pp. 28-33.

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Bagnatica, 19/03/2020

Alexandra Lagorio