

Erica Pastore, Ph. D.

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Date of Birth 12 June 1989
Nationality Italian

EDUCATION

- November 2014 – May 2018 **PhD cum laude, Management, Production and Design**, Politecnico di Torino (Italy)
Supervised by Professor Arianna Alfieri and Professor Giulio Zotteri
The thesis focuses the spare parts supply chain optimisation. Specifically, (i) methods to optimise the forecasting, planning and allocation processes of a single warehouse and (ii) analysis on the demand variability propagation along the echelons of the supply chain are studied
The PhD was funded by CNH Parts & Service.
Thesis title: “Supply Chain Innovation for Parts Inventory Optimisation”
- 2011 – 2014 **MSc, Mathematical Engineering**, Politecnico di Torino (Italy) - 107/110 and publication
Main subjects: probability and statistics, optimization and mathematical modelling, numerical simulations, engineering applications.
Master’s thesis: “Solution algorithms for buffer allocation problem approximated by Time Buffer concept”, supervised by Professor Arianna Alfieri.
- 2008 – 2011 **BSc, Mathematics in Engineering**, Politecnico di Torino (Italy) - 107/110 and publication

RESEARCH EXPERIENCE

- November 2017 – today **Research Fellow**, Politecnico di Torino - Department of Management and Production Engineering
Main subjects: simulation-optimisation methods for production planning and control, demand planning, supply chain management
- April 2017 - present **Reviewer** for International Journal of Production Economics, Journal of Simulation, Journal of the Operational Research Society,

September 2016- February 2017 **Vesting Researcher**, Lancaster Management School – Lancaster University (United Kingdom)

Research project: theoretical analysis on the relationship between forecasting processes and the bullwhip effect.

Main contribution: analysis of the impact of unknown parameters of consumers demand distributions on the variability of forecast error and on the propagation of variability of demand.

November 2014- May 2018 **PhD Researcher**, Polytechnic of Turin (Italy) and CNH Parts & Service (Turin)

TEACHING EXPERIENCE

March 2016 –present **Teaching Assistant**, Politecnico di Torino (Italy)

- Master course of 'Simulazione dei sistemi gestionali' (around 100 students)

- Bachelor course of 'Logistica di distribuzione' (around 300 students)

January 2019 –May 2019 **Lecturer**, SUISS - Scuola Universitaria Interdipartimentale in Scienze Strategiche

Lecturer for the Master course "Logistica di distribuzione" (around 30 students) agreement signed in 31/10/2018

July 2017 **Lecturer**, Mopar – FCA Company S.p.a.

Lecturer for the course "Logistica di distribuzione" (around 15 practitioners, 4 days)

PUBLICATION

Journal Papers:

Alfieri, A., Pastore, E. & Zotteri, G. (2017). Dynamic inventory rationing: How to allocate stock according to managerial priorities. An empirical study. *International Journal of Production Economics*, 189, 14-29. DOI: 10.1016/j.ijpe.2017.04.004

Pastore, E., Alfieri, A & Zotteri, G. (2017). An empirical investigation on the antecedents of the bullwhip effect: Evidence from the spare parts industry. *International Journal of Production Economics*. DOI: 10.1016/j.ijpe.2017.08.029

Pagana, G., Galleani, L., Gross, S., Roch, M. R., Pastore, E., Poggio, M., & Quaranta, G. (2012). Time-Frequency Analysis of the Endocavitarian Signal in Paroxysmal Atrial Fibrillation. *Biomedical Engineering, IEEE Transactions on*, 59(10), 2838-2844. DOI: 10.1109/TBME.2012.2211596

Under Review Papers:

Alfieri, A., Boylan, J., Pastore, E. & Zotteri, G., The impact of demand parameter uncertainty on the Bullwhip Effect, Under Review for the *European Journal of Operational Research*

Conference Papers

Alfieri, A., Pastore E., Adding urban hubs in supply chains: an Italian Fast Fashion case study. Proceedings of the 2018 Winter

Simulation Conference (December 2018, Gothenburg, Sweden)

Castiglione, C., Alfieri A., Pastore, E. Decision Support System to balance inventory in customer-driven demand. IFAC-PapersOnLine 51.11 (2018): 1499-1504. DOI: 10.1016/j.ifacol.2018.08.288

Alfieri, A., Pastore, E. & Matta, A. A column generation algorithm for the Buffer Allocation Problem approximated by the Time Buffer concept. IFAC-PapersOnLine 49.12 (2016): 739-744. DOI: 10.1016/j.ifacol.2016.07.862

Pastore, E., Alfieri, A. & Zotteri, G. (2015). Managing different demand classes in a spare parts inventory: a practical dynamic allocation strategy, Proceedings of the 13th International Symposium on Operational Research SOR '15.

Alfieri, A., Pastore, E., & Pedrielli, G. (2015). Release versus WIP control strategies. A comparison study between Time Buffer Control System (TBCS), Base Stock and Kanban policies, Proceedings of the XII A.I.Te.M.

Listorti, E., Marino, G. & Pastore, E. (2016) Agent-based modelling for diabetic patient behaviour: the impact of word of mouth. Submitted to the Social Simulation Conference (September 2016, Rome, ITALY)

Working Papers

Alfieri, A., Matta, A., Pastore, E., The time buffer approximated Buffer Allocation Problem: a row-column generation approach, *working paper*

Alfieri, A., Matta, A., Pastore, E., Additive manufacturing in aeronautics spare parts supply chain: an evaluation based on inventory policies, *working paper*

Alfieri, A., Pastore, E., Zotteri, G., Multi-period policies for dynamic inventory rationing, *working paper*

Alfieri, A., Boylan, JE., Pastore, E., Zotteri, G., The impact of the update frequency in inventory system nervousness, *working paper*

Alfieri, A., De Marco, A., Pastore, E., The impact of adding urban satellites in Fast Fashion supply chains, *working paper*

LANGUAGES

Italian	Mother tongue
English	Level C1 First Certificate in English (PASS)
French	Level B2 DEL F B2
Spanish	Basic Level A2