

# Stefania Altavilla, Ph.D.

Department of Management and Production Engineering  
Politecnico di Torino – Italy



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**Date of Birth Nationality** 14 February 1987  
Italian

## EDUCATION

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- November 2014 – October 2017 **PhD cum laude, Management, Production and Design**, Politecnico di Torino (Italy)  
**Dissertation Title: When costs from being a constraint become a driver for concept generation**  
Supervised by Professor Francesca Montagna  
The thesis regards the exploration of methods for product cost estimation, with particular attention to those that will allow an early evaluation of the effects of single design choices on product life cycle costs.
- 2011 – 2013 **MSc, Industrial and Management Engineering**, Politecnico di Torino (Italy)  
Main subjects: Management Accounting and Control, Industrial Economics, Finance, Strategy, Innovation Management, Marketing, Quality engineering, Project Management, Business Planning.  
Master's thesis: "Life Cycle Cost Method: A Feasibility Study For A Future Application", supervised by Professor Francesca Montagna and Professor Emilio Paolucci.  
Internship (8 months) in AVL LIST GmbH, Graz (Austria): Development of the Master thesis project regarding the Product Life Cycle Cost.
- 2006 – 2010 **BSc, Logistics and Production Engineering**, Politecnico di Torino (Italy)

## RESEARCH EXPERIENCE

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- 1 January 2019- present **Postdoc Fellowship**, Politecnico di Torino (Italy),  
Innovation and Data Driven Design
- 1 August 2018- 31 December 2018 **Research Scholarship**, Politecnico di Torino (Italy)  
"Studio delle tecniche di analisi e raccolta dati, nell'ambito della progettazione e sviluppo prodotto. "

- June 2018- present      Reviewer for the Artificial Intelligence for Engineering Design, Analysis and Manufacturing Journal and different conferences of the Design Society, and for the IFIP Conference on Product Lifecycle Management.
- 1 November 2017- 18 October 2018      **Research Scholarship**, Politecnico di Torino (Italy)  
 “Definizione di requisiti e specifiche implementative per sistemi con robot collaborativi e postazioni di lavoro autoadattative”
- October 2016- January 2017      **Vesting Researcher**, Department of Mechanical Engineering, University of Bath (United Kingdom)  
 Research Focus:
  - Developing a model to assist in assessing the design development cost for user defined product customization
  - Using historical design and manufacturing and warranty information to predict new product design, manufacturing and warranty costs
  - KM to inform lifecycle decision making in terms of design and cost during research & development (at the early design stages)
- November 2014- October 2017      **PhD Researcher**, Politecnico di Torino (Italy) and AVL LIST GmbH, Graz (Austria)  
 Research Focus:
  - Developing a model for product life cycle cost estimation at the early stage of product development;
  - Studying the effects of the product architecture on different stages of product life cycle;
 Future Research Focus:
  - Looking at the best cost models in addressing the estimation of different kind of product innovations;
  - Investigating the most common methods for product cost estimation used by companies;
  - Studying at the effect of the degree of modularization on platform development.
- May 2014 – October 2014      **Research Fellowship**, AVL LIST GmbH, Graz (Austria) and Politecnico di Torino (Italy)  
 Product life cycle cost evaluation in the Automotive Industry.

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#### TEACHING EXPERIENCE

- October 2018 –present      **Teaching Assistant, Programmazione e controllo della produzione, Corso Di Laurea In Ingegneria Gestionale, Politecnico di Torino (Italy)**
- 7 November 2018      **Lecturer, Applications for product transformation, Master Universitario di II Livello in Manufacturing 4.0, Politecnico di Torino (Italy)**  
 Product Definition and Commercial Parameters

March 2016 –present	<b>Teaching Assistant, Innovation Management and Product development, Politecnico di Torino (Italy)</b> Laboratory Tutor for the Master course of Innovation Management.
12-16 March 2018	<b>Tutor, Alta Scuola Politecnica (ASP), XIV Cycle</b> Winter School “Dynamics of Innovation”
7-11 March 2018	<b>Tutor, Alta Scuola Politecnica (ASP), XIV Cycle</b> Spring School “Design Methods and Processes”
7 May 2017	<b>Lecturer, Alta Scuola Politecnica (ASP), XIV Cycle</b> Lecturer for the Tutorial “Hands on Managing Design Competencies and Roles” during the Spring School “Design Methods and Processes”
13-17 March 2017	<b>Tutor, Alta Scuola Politecnica (ASP), XIII Cycle</b> Winter School “Dynamics of Innovation”
22 May 2017	<b>Lecturer, Alta Scuola Politecnica (ASP), XIII Cycle</b> Lecturer for the Tutorial “Hands on Managing Design Competencies and Roles” during the Spring School “Design Methods and Processes”

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## PUBLICATIONS

### Journal Papers:

Altavilla, S., Montagna, F., & Cantamessa, M. (2018). A multilayer taxonomy of Cost Estimation techniques, looking at the whole product lifecycle. *Journal of Manufacturing Science and Engineering*, 140(3), 030801.

Stefania Altavilla and Francesca Montagna. A product architecture-based framework for a data-driven estimation of lifecycle cost. *Journal of Manufacturing Science and Engineering*

### Under Review Papers:

Mohammad Hassannezhad, Stefania Altavilla, Francesca Montagna, Marco Cantamessa. A function-based approach to identify the recent advances in modelling product development processes. (Under Review for the *Journal of Research in Engineering Design*)

### Conference Papers

Altavilla, S., & Montagna, F. (2015), When Costs From Being A Constraint Become A Driver For Concept Generation. In *DS 80-5 Proceedings of the 20th International Conference on Engineering Design (ICED 15) Vol 5: Design Methods and Tools-Part 1, Milan, Italy, 27-30.07. 15.*

Montagna, F.; Cantamessa M; Altavilla, S. (2016) A runway to leap across the chasm, In: *Proceeding of the 17th International CINet Conference 17th International CINet Conference, Turin, Italy September, 11-13*

Stefania Altavilla; Francesca, Montagna; Linda, Newnes (2017), Interdisciplinary life cycle data analysis within a knowledge-based system for product cost estimation. In: *20th International Conference on Engineering Design (ICED 15), Vancouver, Canada, 21-25 Agosto.*

Casagrande, Alessandro; Montagna, Francesca; Cascini, Gaetano; Altavilla, Stefania (2017), A Decision Support Model To Assess Technological Paradigms. In: 17th International CINet Conference.

Altavilla, S., & Montagna, F. (2018). When Lifecycle Cost Analysis Enables Strategic Design Considerations. In DS92: Proceedings of the DESIGN 2018 15th International Design Conference (pp. 953-964).

### **Working Papers:**

Altavilla, S., Montagna, F., Cantamessa, M., Linda Newnes (2019). Product Costing as a strategic and operational activity for Product Portfolio Management.

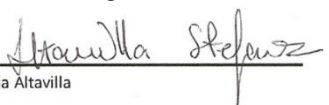
## LANGUAGES

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<b>Italian</b>	Mother tongue
<b>English</b>	Level C1 IELTS certification (score 6.5 in 2010)
<b>German</b>	A2.2
<b>Spanish</b>	C1
<b>French</b>	Basic Knowledge

Torino 15/11/2018

Signature

  
Stefania Altavilla