PERSONAL INFORMATION

Matteo Rossini

Via Cerchia delle Mura 6, 24050, Mozzanica (BG), Italy
+393453201167
matteo.rossini@polimi.it

Sex M | Date of birth 18/01/1990 | Nationality Italian

CURRENT POSITION (11/6/19)

2019 November - to date

Assistant Professor (Ricercatore a tempo determinate di tipo A, RTDA)

Politecnico di Milano - Department of Management, Economics and Industrial Engineering

Responsible of Operations Management course (10 cfu) at Master of Science of Management Engineering at Politecnico di Milano
Sector Operations Management, Production Planning and Control, Sustainable Continuous Improvement

2019 March - 2020 July

Adjunct Professor (Professore a contratto) of Operations Management

Politecnico di Milano - Department of Management, Economics and Industrial Engineering

Responsible of Operations Management course (10 cfu) at Master of Science of Management Engineering at Politecnico di Milano
Sector Operations Management, Production Planning and Control, Sustainable Continuous Improvement

2018 October - to date

Core Faculty member

MIP Business School

Teacher in several executive courses (Lean Six Sigma, MBA, bootcamps) and Adjunct Professor of Service Management course in IMIM (international master in industrial management) and GMIM (global master in industrial management)
Sector Operations Management, Service management, Production Planning and Control, Sustainable Continuous Improvement

2020 June - to date

Responsible of cluster Lean 4.0, Logistics 4.0 and Digital Twin

MADE - Industry 4.0 Competence Centre, Milano

MADE is an application-oriented research organization. The main goal is technology transfer from academic research to industry.

Sector Technology transfer, Lean, Industry 4.0

SHORT SUMMARY

Matteo Rossini has been collaborating with the Department of Management, Economics and Industrial Engineering at Politecnico di Milano since 2014. He is an Industrial Engineer and he completed his PhD at Politecnico di Milano in February-2018, specializing on Lean Supply Chain. From that moment, he started working as Post-Doc research fellow at the Department of Management, Economics and Industrial Engineering at Politecnico di Milano, working on different research topics, with specific focus on Operations Management, Production Planning and Control and Sustainable Continuous Improvement. During and after the PhD period, Matteo has been lecturer and assistant professor in master of science courses at Politecnico di Milano and in several graduate, post-graduate and executive courses at MIP business school. Moreover, he is involved in several industrial projects in Italy and abroad, participating in defining the research problem as the main investigator and he is actively participating in fundraising activity for Lean Execellence Centre group, overperforming 100k€ per year in the last three years. Since March-2019, he is an adjunct professor (responsible) of Operations Management, a master of science course (10cfu) of Politecnico di Milano.
Now, his main activities are:

- Researching in collaboration with Lean Excellence Centre at Politecnico di Milano, publishing in international peer reviewed journals;
- Teaching as an adjunct professor of Operations Management Master of Science course (10cfu) of Management Engineering at Politecnico di Milano.
- Collaborator with MADE competence centre, responsible of Cluster Lean 4.0, Logistics 4.0 and Digital Twin

EDUCATION AND TRAINING

November 2014 - February 2018

PhD in Management Engineering - 1/2/2018

Politecnico di Milano - Department of Management, Economics and Industrial Engineering, Milan, Italy

- Subject: Industrial Engineering, Operations Management
- Thesis: Investigating Lean Supply Chain Planning
- Short summary: The work demonstrates that Lean Supply Chain Planning (LSCP) is a valuable option for gaining competitive advantage and gives a framework for supporting managers on evaluating it. In addition, a deep study focused on LSCP practices highlighted relevant aspects of LSCP adoption which are not easy to foresee, but that have a significant role on determining if LSCP journey will be successful or not.

October 2012 - October 2014

Master of Science in Management Engineering - 3/10/2014

Politecnico di Milano - Milan, italy

- Specialization: Manufacturing & Management - Laurea Magistrale Ingegneria Gestionale
- Thesis: “Analisi tramite un modello di simulazione dell'implementazione di un sistema kanban in una supply chain”
- Mark: 107/110

October 2009 - September 2012

Bachelor in Management Engineering - 27/09/2012

Politecnico di Milano - Milan, italy

- Specialization: Laurea Triennale Ingegneria Gestionale
- Thesis: Business Game
- Mark: 97/110

RESEARCH POSITIONS

April 2018 - October 2018

Post-doc Research Fellow

Politecnico di Milano - Department of Management, Economics and Industrial Engineering, Milan, Italy

- Subject: OPEX - operational excellence
- Projects: “Operations improvement: future and trend in industry 4.0 era”
- Short summary: OPEX is a great project focusing on investigating operational excellence practices and the methodologies useful for developing operational excellence practices by companies. The project started in 2016, and it is based on the developing of several case studies in several companies. The project is privately funded by companies and Matteo is actively participating on fundraising, collecting more than 60k€ per year.

November 2014 - February 2018

PhD in Management Engineering

Politecnico di Milano - Department of Management, Economics and Industrial Engineering, Milan, Italy

- Subject: Industrial Engineering, Operations Management
- Thesis: Investigating Lean Supply Chain Planning
- Short summary: The work demonstrates that Lean Supply Chain Planning (LSCP) is a valuable option for gaining competitive advantage and gives a framework for supporting managers on evaluating it. In addition, a deep study focused on LSCP practices highlighted relevant aspects of LSCP adoption which are not easy to foresee, but that have a significant role on determining if LSCP journey will be successful or not.

FELLOWSHIPS AND STUDIES ABROAD

2019 March - to date

Adjunct Professor

Politecnico di Milano - Department of Management, Economics and Industrial Engineering

Responsible of Operations Management course (10 cfu) at Master of Science of Management Engineering at Politecnico di Milano

Winner of an national contest, selection done at international level for the vacant position of professor

April 2018 - October 2018

Post-doc Research Fellow

Politecnico di Milano - Department of Management, Economics and Industrial Engineering, Milan, Italy

- Subject: Sustainable Continuous Improvement and Planning and Control
- Projects: OPEX - operational excellence

Winner of an national contest with scholarship, selection done at international level

November 2014 - February 2018

PhD in Management Engineering

Politecnico di Milano - Department of Management, Economics and Industrial Engineering, Milan, Italy

- Subject: Industrial Engineering, Operations Management
- Thesis: Investigating Lean Supply Chain Planning

Short summary: The work demonstrates that Lean Supply Chain Planning (LSCP) is a valuable option for gaining competitive advantage and gives a framework for supporting managers on evaluating it. In addition, a deep study focused on LSCP practices highlighted relevant aspects of LSCP adoption which are not easy to foresee, but that have a significant role on determining if LSCP journey will be successful or not.

Winner of an national contest with scholarship, selection done at international level

June 2017 - September 2017

Visiting PhD student

Universidade Federal de Santa Caterina, Florianopolis, Brasil

- What: Visiting researcher and research partner in an applied research of Lean in hospital SC collaborating with professor Guilherme Tortorella
- Output: publication on “Journal of Health Organization and Management”

July 2016 - October 2016

Visiting PhD student

Cardiff University - Cardiff Business School, Cardiff, UK

- What: Visiting researcher about Lean Supply Chain, collaborating with Professor Maneesh Kumar
- Output: publication on “ Production and Manufacturing Research ”

RESEARCH AREAS OF INTEREST

The main research area is **OPERATIONS MANAGEMENT** and, inside of this huge field of research, Matteo's interests are the following:

Lean Management and Sustainable Continuous Improvement:

It is the central topic of Matteo's research activity since his PhD, addressing the management of continuous improvement process for gaining competiveness.
He spent on this topic 3-months research period at the Cardiff University of Cardiff (UK) as visiting Ph.D student and 3-months research period at the Universidade Federal di Santa Caterina of Florianopolis (Brazil).

- **Lean Supply Chain**: In his PhD investigation, he focused on analysing LSCP model performance, comparing LSCP model that is reactive, with a more popular Visibility model, which tries to anticipate demand behaviour. He compared LSCP and Visibility models through simulation under different scenarios and built a new evaluation framework model that works as guideline for managers decisions. Additionally, since 2016 he has been involved in several industrial projects as the main investigator of this topic.
- **Lean in Healthcare**: He investigated the implementation of Lean principles in healthcare environment, collaborating with Professor Tortorella of UFSC. They developed research in this new field for Lean management collaborating on collecting case studies that reached publications on international peer reviewed journals.
- **Sustainable Continuous Improvement**: He investigated the implementation of operations improvement project in both manufacturing and service industries, collaborating with Lean Excellence Centre since 2016 in the OPEX research. He supervised more than 20 cases per year developing a huge knowledge in the field and developing academic articles published on international peer reviewed journals.
- **Lean and Industry 4.0**: After his PhD, Matteo started passionate at the link/interrelation between the fourth industrial revolution and Lean approach. This leads to several research studies, which analyse the impact that the two approaches have on each other, through surveys, case studies, collaborating with abroad university and ending in publications on international peer reviewed journals. Additionally, since 2018 he has been invited as keynote speaker in industrial seminars of industry organization as the main investigator of this topic.

Planning and Control (workload control):

Starting from his M.Sc thesis she has been developed interest on Planning and Control both in supply chain and in production environments. He is investigating, through simulation tool, planning tools and practices that enhances performances in flow-shop systems. This investigation, collaborating with other researchers, already successfully ended in a publication on international peer reviewed journal and others are coming.

RESEARCH PROJECTS

Nov 2015 - To date

OPEX

Politecnico di Milano - Department of Management, Economics and Industrial Engineering, Milan, Italy

- Subject: OPEX - operational excellence
- Projects: "Operations improvement: future and trend in industry 4.0 era"
- Short summary: OPEX is a great project focusing on investigating operational excellence practices and the methodologies useful for developing operational excellence practices by companies. The project started in 2016, and it is based on the developing of several case studies in several companies. The project is privately funded by companies and Matteo is actively participating on fundraising, collecting more than 60k€ per year.
- Output achieved: a publication on international peer reviewed journal "Operations Research Perspectives";

June 2017 - September 2017

Lean Supply Chain in healthcare

Politecnico di Milano - Department of Management, Economics and Industrial Engineering, Milan, Italy
Universidade Federal de Santa Caterina, Florianopolis, Brasil

- Short summary: International Collaboration project focused on the review of replenishment policy for a public hospital. The goal was to understand through a case study the managerial approach used for inventories in hospital and to develop a more transparent and efficient mode of managing high-cost items.
- Time: 4 months project
- Professor: Tortorella (UFSC)
- Output: publication on "Journal of Health Organization and Management";

April 2018 - to date

Lean and Industry 4.0

Politecnico di Milano - Department of Management, Economics and Industrial Engineering, Milan, Italy
Universidade Federal de Santa Caterina, Florianopolis, Brasil

- Short summary: International collaboration project focused on analysing the interrelation of Lean and Industry 4.0. The study bases on empirical research, survey and case studies of companies in Italy and Brazil. Moreover, a part of study aims at identifying the differences between the two countries, highlighting impact of Lean and Industry 4.0 in developed countries (as Italy) and emerging countries (as Brazil).
- Time: 1 year project
- Professor: Tortorella (UFSC)
- Output: publication on "International journal of advanced manufacturing technology" and another paper under review in " Total Quality Management & Business Excellence ";

March 2016 - December 2017

Operational Excellence

Politecnico di Milano - Department of Management, Economics and Industrial Engineering, Milan, Italy
FICEP Spa, Gazzada-Schianno (VA), Italy

- Title of the Project: "INNOVAZIONI TECNICHE, ORGANIZZATIVE E GESTIONALI PER AUMENTARE LA COMPETITIVITA' AZIENDALE NELL'AMBITO DEI PROCESSI PRODUTTIVI".
- Time: 2 years project
- Company: FICEP Spa
- Activity: active research for understanding and developing new practices for continuous improvement in production processes;

PUBLICATIONS

INTERNATIONAL INDEXED JOURNALS

[in brackets is indicated when the paper is indexed by Scopus and/or WoS]

1. Borges, G. A., Tortorella, G., Rossini, M., & Portioli-Staudacher, A. (2019). Lean implementation in healthcare supply chain: A scoping review. Journal of Health Organization and Management, doi:10.1108/JHOM-06-2018-0176 [Scopus-Q2 and WoS]

2. Rossini, M., Costa, F., Tortorella, G. L., & Portioli-Staudacher, A. (2019). The interrelation between industry 4.0 and lean production: An empirical study on european manufacturers. International Journal of Advanced Manufacturing Technology, doi:10.1007/s00170-019-03441-7 [Scopus-Q1 and WoS]

3. Kundu, K., Rossini, M., & Portioli-Staudacher, A. (2019). A study of a kanban based assembly line feeding system through integration of simulation and particle swarm optimization. International Journal of Industrial Engineering Computations, 10(3), 421-442. doi:10.5267/j.ijiec.2018.12.001 [Scopus-Q1 and WoS]

4. Costa, F., Lispi, L., Staudacher, A. P., Rossini, M., Kundu, K., & Cifone, F. D. (2019). How to foster sustainable continuous improvement: A cause-effect relations map of lean soft practices. Operations Research Perspectives, 6 doi:10.1016/j.orp.2018.100091 [Scopus-Q1 and WoS]

5. Kundu, K., Rossini, M., & Portioli-Staudacher, A. (2018). Analysing the impact of uncertainty reduction on WLC methods in MTO flow shops. Production and Manufacturing Research, 6(1), 328-344. doi:10.1080/21693277.2018.1509745 [Scopus-Q1 and WoS]

6. Rossini, M., & Portioli, A. (2018). Supply chain planning: A quantitative comparison between lean and info-sharing models. Production and Manufacturing Research, 6(1), 264-283. doi:10.1080/21693277.2018.1509744 [Scopus-Q1 and WoS]

7. Rossini, M., Audino, F., Costa, F., F., Cifone, F. D., Kundu, K., & Portioli-Staudacher, A. (2019). Extending Lean frontiers: a kaizen case study in an Italian MTO manufacturing company. International Journal of Advanced Manufacturing Technology, doi: 10.1007/s00170-019-03990-x [Scopus-Q1 and WoS]

8. Tortorella, G. L., Rossini, M., Costa, F., Portioli-Staudacher, A., & Sawhney, R. A comparison on Industry 4.0 and Lean Production between manufacturers from emerging and developed economies. Total Quality Management & Business Excellence [Scopus-Q1 and WoS]

9. Kundu, K., Cifone, F., Costa, F., Portioli-Staudacher, A., Rossini, M. (2020) An evaluation of preventive maintenance framework in an Italian manufacturing company, Journal of Quality in Maintenance Engineering

10. Torri, M., Kundu, K., Frecassetti, S., Rossini, M., (2021) Implementation of lean in IT SME company: an Italian case, International Journal of Lean Six Sigma

INTERNATIONAL INDEXED CONFERENCES

[in brackets is indicated when the paper is indexed by Scopus and/or WoS]

1. Rossini, M., & Portioli Staudacher, A. (2017). Lean supply chain planning: Simulation of lean techniques integration. Paper presented at the Proceedings of the Summer School Francesco Turco, , 2017-September 190-193. **[Scopus]**

2. Rossini, M., & Staudacher, A. P. (2016). A comparison between lean and visibility approach in supply chain planning. Paper presented at the Proceedings of the Summer School Francesco Turco, , 13-15-September-2016 215-219. **[Scopus]**

3. Rossini, M., & Staudacher, A. P. (2016). Lean supply chain planning: A performance evaluation through simulation. Paper presented at the MATEC Web of Conferences, , 81 doi:10.1051/matecconf/20168106002 **[Scopus and WoS]**

4. F.Costa, A.Portioli-Staudacher, D.Nisi, M.Rossini, Integration of Order Release and Output Control with Worker's allocation in a pure flow shop, IFAC Conference, Berlin, August 2019 **[Scopus]**

5. Rossini M., Portioli-Staudacher A., Cifone F.D., Costa F., Esposito F., Kassem B.,(2020), Lean and Sustainable Continuous Improvement: Assessment of People Potential Contribution, *Lecture Notes in Networks and Systems* **[Scopus]**

6. Rossini M., Costa F., Staudacher A.P., Tortorella G., (2019), Industry 4.0 and lean production: An empirical study, *IFAC-PapersOnLine* **[Scopus]**

INTERNATIONAL CONFERENCES

1. M. Rossini, A. Portioli-Staudacher, Lean supply chain planning: importance of SC partners involvement, The 20th International Working Seminar on Production Economics, Innsbruck, 2018

2. M. Rossini, A. Portioli-Staudacher, Lean Supply Chain: the roles of SC partners in the Lean journey., EUROMA 2019, Helsinki, 2019

3. F.D.Cifone, A.Portioli-Staudacher, F.Costa, M.Rossini, Organizational culture and Lean practices: analysis through a real case study, Euroma 2019, Helsinki, 2019

INVOLVEMENT IN SCIENTIFIC NETWORKS

SPEAKER AT INERNATIONAL CONFERENCES

- IFAC-MIM 2019, Berlin (Germany).
  Manufacturing Modelling, Management and Control.
  28 - 30 August 2019
- EUROMA 2019, Helsinki (Finland).
  European Operations Management Association International Conference.
  7 - 19 June 2019
- IWSPE 2018, Innsbruck (Austria).
  International Working Seminar on Production Economics.
  19 - 23 February 2018
- Summer School Francesco Turco 2017, Palermo (Italy).
  XXII Summer School Francesco Turco - Industrial Systems Engineering
  September 2017
- Summer School Francesco Turco 2016, Napoli (Italy).
  XXI Summer School Francesco Turco - Industrial Systems Engineering
  September 2016
- ICTTE 2016, Lucerne (Switzerland).
  5th International Conference on Transportation and Traffic Engineering.
  July 2016
- ICOMS 2015, Venezia (Italy).
  17th International Conference on Operations Management and Strategy.
  November 2015
- Summer School Francesco Turco 2015, Napoli (Italy).
  XX Summer School Francesco Turco - Industrial Systems Engineering
  September 2015

LOCAL COMMITTE AT INERNATIONAL CONFERENCES

- ELEC 2019, Milano (Italy)
  6th European Lean Educator Conference.
  11-13th November 2019

NATIONAL CONFERENCES

KEYNOTE SPEAKER

- Lean, acceleratore della crescita: pochi costi, tanti benefici.
  Assolombarda
  Milano, 9 Aprile 2019
- LEAN e INDUSTRIA 4.0
  Confindustria Lecco e Sondrio
  Lecco, 5 Febbraio 2019

EDITOR and KEYNOTE SPEAKER

- Migliorare per vincere: la capacita' di migliorare come fonte di vantaggio competitivo
  Lean excellence centre - Politecnico di Milano - Department of Management, Economics and Industrial Engineering
  Milano, 4 luglio 2018

TEACHING ACTIVITY

2019 March - to date

Adjunct Professor

Politecnico di Milano - Department of Management, Economics and Industrial Engineering, Milan

- Responsible of **Operations Management course (10 cfu - Cod 096088)** at Master of Science of Management Engineering at Politecnico di Milano. (Course with more than 200 students per year).

Winner of an national contest, selection done at international level for the vacant position of professor

November 2014 - to date

Assistant Professor (more than 200 hours of experience as frontal lecturer)

Politecnico di Milano - Department of Management, Economics and Industrial Engineering, Milan, Italy

- Lecturer of practical classes of **Operations Management course (10 cfu - Cod 096088**) at Master of Science of Management Engineering at Politecnico di Milano (course with more than 200 students per year)
- Selection winner for the years:
  - 2014/2015
  - 2015/2016
  - 2016/2017
  - 2017/2018
  - 2018/2019

Winner of an national contest in several years, selection done at international level

May 2015 - September 2016

Assistant Professor (more than 50 hours of experience as frontal lecturer)

MIP Business School, Milan, Italy

- Lecturer of practical classes of **Operations Management course** and **Service Management course**
- Program: IMIM International Master of Industrial Management
- Assistant Professor Lecturer:
  - 2015 and 2016 Editions for Service Management
  - 2015 and 2016 Editions for Operations Management

May 2017 - to date

Adjunct Professor (more than 90 hours of experience as frontal lecturer)

MIP Business School, Milan, Italy

- Lecturer and responsible of **Service Management course**
- Program: IMIM International Master of Industrial Management
- Assistant Professor Lecturer:
  - 2017, 2018 and 2019 Editions for Service Management

May 2017 - to date

Assistant Professor (more than 50 hours of experience as frontal lecturer)

MIP Business School, Milan, Italy

- Lecturer of practical classes of **Percorso Lean Six Sigma (i.e. green belt certification) and Excutive courses (i.e. Bootcamp I4.0 and MBA)**
- Program: Executive course with classes composed by experienced managers;
- Assistant Professor Lecturer “Percorso Lean Six Sigma”:
  - Edizione X 2014/2015
  - Edizione XI 2015/2016
  - Edizione XII 2016/2017
  - Edizione XIII 2017/2018
  - Edizione XIV 2018/2019

TUTORING AND SUPERVISOR ACTIVITY

October 2015 - to date

INDUSTRIAL MANAGEMENT LAB METHODOLOGICAL TUTOR

Politecnico di Milano - Department of Management, Economics and Industrial Engineering, Milan, Italy

- Subject: Industrial Management
- Activity: Methodological supervision of operations improvement projects carried out by teams of students
- Short summary: Definition and methodological supervision of operations improvement real projects in companies. Duty of methodological tutor is to agree, define and design with companies an operations improvement project of 4-5 months and then to supervise methodologically students that are assigned to that project.
- More than 300 hours of tutoring, more than 50 operations improvement projects designed and supervised

November 2014 - to date

MASTER THESIS ADVISORY

Politecnico di Milano - Department of Management, Economics and Industrial Engineering, Milan, Italy

- Subject: Industrial Management, Operations Management
- Activity: Methodological supervision of master of science thesis
- Short summary: Definition and methodological supervision of Master of Science thesis.
- More than 30 Master of Science thesis supervised.

November 2014 - October 2016

Tutor for integrative projects

Politecnico di Milano - Department of Management, Economics and Industrial Engineering, Milan, Italy

- Tutor of students group carrying out integrative projects for the course of **Operations Management course (10 cfu - Cod 096088)** at Master of Science of Management Engineering at Politecnico di Milano
- Selection winner for the years:
  - 2014/2015
  - 2015/2016

Winner of an national contest in several years, selection done at international level

CERTIFICATIONS

Professional Certification National professional qualification in Industrial Engineering. LIUC di Castellanza, February 2019

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C2	C1	C1
Portuguese	B1	B2	B1	B1	B1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
Common European Framework of Reference for Languages