

# SILVIA COLABIANCHI

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## EDUCATION

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Prot. n. 0001240 del 11/10/2021 - [UOR: IMP000020 - Classif. VII/16]

- 11/2019 – Ongoing      **PhD Student in “Industrial and Management Engineering, Sapienza University of Rome - three-years full time fellowship**  
This PhD research focuses on cyber-physical systems (CPS) resilience. The research aims to individuate a methodology to model and measure CPS resilience. The study will investigate disruptions which involve CPS utilized in complex systems such as smart factories or supply chains.
- 01/2021 – 07/2021      **Advanced Training Course in Project Program Portfolio Management Sapienza University of Rome & Project Management Institute Italy**
- 2017 - 2019              **MSc in Management Engineering, University of Rome La Sapienza, Italy Focus on Management of Industrial and Production Systems**  
*Final grade: 110/110 Cum Lode*  
*Final Work: “Predicting student dropout using a machine learning approach”.*
- 01/2018 – 07/2018      **Erasmus+ programme, Technische Universiteit Delft – TUDelft, Netherlands**
- 2014 - 2017      **BSc in Management Engineering, University of Rome La Sapienza, Italy Final Grade: 104/110**
- 2008 - 2013              **High school Diploma, Liceo Scientifico PNI Farnesina Rome, Italy**
- 2011                      World Exchange Program, Northern Bay College, Geelong, Australia

## PROFESSIONAL EXPERIENCE

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- 02/2021 - Ongoing      **CONAD: Preliminary analysis for the realization of an automatic warehouse of a logistic network.**  
The aim of the project was to propose and evaluate, from a technical-economic point of view, alternative technological solutions for the introduction of automatic storage, picking and handling systems in a large-scale distribution warehouse.
- 05/2021 - Ongoing      **ABB: Automatic visual inspection of surface defects**  
Development of a tool that automatically identify surface defects on objects in a production line through a line scan camera.
- 12/2020 – 07/2021      **Tutor Gestione Aziendale, Sapienza University of Rome**  
Tutoring grant for teaching and tutoring activities for Business Management Course (12CFU)
- 01/2021 – 04/2021      **Artificial Intelligence for culture heritage**  
Development of a system that allows to compare images and identify any damage, changes in color and surface condition aimed at restoration.

- 11/2019 - 03/2020 **IOM – International Organization for Migration: PowerBi dashboard**  
Development of a tool that automatically identify diaspora associations by cross-referencing data publicly available on the Internet through a practice of social media listening and data analysis through machine learning techniques. All data collected and processed have been reported developing a PowerBI dashboard.
- 01/2020 – 02/2020 **Support in the development of a tool to automatically compare images and measure their similarity.**  
Development of a tool able to detect and compute key points on multiple images, compare them, extract matching features, and quantify the degree of similarity between two images.
- 02/2017 – 07/2017 **Internship at Technis Blu –Infodata Group, Rome, Italy**  
*SAP junior consultant –MM – Material Management*

## PERSONAL SKILLS

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Languages **Italian** (mother tongue)

**English** fluent (IELTS - Score 7.0 Level C1 - February 2017 and CAE - March 2012)

Computer skills **AMPL: A Mathematical Programming Language**

**IBM SPSS Statistics 25**

**Anylogistix**

**Microsoft Office Pack**

**Azure Machine Learning Studio Microsoft PowerBI C Python**

Course **Certified Associate in Project Management (CAPM)** - Project Management Institute

## PUBLICATIONS

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### *International Journal*

- 2021 Colabianchi, S., Costantino, F., Di Gravio, G., Nonino, F., & Patriarca, R. (2021). **Discussing resilience in the context of cyber physical systems.** *Computers & Industrial Engineering*, 107534.

### *Conference proceedings*

- 2021 Bernabei M., Colabianchi S., Costantino F., Patriarca R. (2021). **Using Natural Language Processing to uncover main topics in defect recognition literature,** Paper accepted at the Proceedings of the Summer School Francesco Turco
- 2021 Annarelli A, Colabianchi S., Nonino F. & Palombi G. (2021). **The effectiveness of outsourcing cybersecurity practices: a study of Italian context.** Paper accepted at the FTC 2021 - Future Technologies Conference 2021
- 2020 Colabianchi, S., Costantino, F., Genito, C., Iannucci, M., & Quatrini, E. (2020). **A predictive maintenance model for an industrial fan in a cement plant.** Paper presented at the Proceedings of the Summer School Francesco Turco
- 2020 Quatrini, E., Colabianchi, S., Costantino, F., & Tronci, M. (2020). **Machine learning models to predict components decay in a naval propulsion system.** Paper presented at the Proceedings of the Summer School Francesco Turco

## EXTRA CURRICULAR ACTIVITIES

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2015 - Ongoing

**AGESCI – Association of Italian Catholic Guides and Scouts - Scout Leader**

*For the last three years in charge of a group of 20 young people of the ages of 16 to 19. In fulfilling the role, planned weekly and summertime activities for young people, maintaining relations with families and local institutions (schools, social services, municipal government).*

2010-2015

**MUN – Model United Nation Simulation of UN operations**

*Served as ambassador of the school in UN simulations in Rome, Shanghai, Lubeck, and Philadelphia.*

2010 - Ongoing

**Various volunteering experiences**

*Took part in many volunteering activities such as Mensa Caritas, Banco Alimentare, Sant' Egidio, Italian Association of Individuals with Down's Syndrome*

*I hereby authorize the use of my personal data in accordance to the GDPR 679/16 - Silvia Colabianchi*