



# Marco Pegoraro

## Curriculum Vitæ

### Experience

- June 2018 **Scientific Assistant**, RWTH AACHEN UNIVERSITY, Aachen (Germany).  
Current Researcher in the Process And Data Science group (PADS) at RWTH Aachen University. The PADS group was founded by Prof. Wil M.P. van der Aalst following the assignation of the Alexander von Humboldt professorship. My focus is on Process Mining in uncertain settings, and applications of Process Mining in the healthcare domain. Also, I fulfill teaching assistance duties.
- May 2016 **Research Engineer**, SIAV SPA, Rubano (Padova, Italy).  
May 2018 My role in the R&D section of Siav is to investigate about promising technologies related to the fields of Machine Learning on text and documents and Business Process Management, and to build a working prototype of the most interesting ones.  
Main research fields: Process Mining, Machine Learning, Natural Language Processing, Computer Vision. Moreover, I supervised the work of some Bachelor's and Master's students on the same topics.
- Sep 2011 **Academic Intern**, NASA AMES RESEARCH CENTER, San Francisco (remote).  
Apr 2012 The project involved the application of artificial intelligence techniques for the identification of aircrafts flight trajectories that minimise the sound. Supervisors: Prof. Francesca Rossi and Prof. K. Brent Venable.

### Publications

- Title ***Efficient Time and Space Representation of Uncertain Event Data.***  
Authors M. Pegoraro, M.S. Uysal, W.M.P. van der Aalst  
Venue MDPI Algorithms special issue, Process Mining and Emerging Applications, 2020.
- Title ***Efficient Construction of Behavior Graphs for Uncertain Event Data.***  
Authors M. Pegoraro, M.S. Uysal, W.M.P. van der Aalst  
Venue International Conference on Business Information Systems (BIS), 2020.
- Title ***Discovering Process Models from Uncertain Event Data.***  
Authors M. Pegoraro, M.S. Uysal, W.M.P. van der Aalst  
Venue International Workshop on Business Process Intelligence (BPI), 2019.

Title ***Mining Uncertain Event Data in Process Mining.***  
Authors M. Pegoraro, W.M.P. van der Aalst  
Venue International Conference on Process Mining (ICPM), 2019.

Title ***Local Search for Designing Noise-Minimal Rotorcraft Approach Trajectories.***  
Authors R. Morris, K.B. Venable, M. Pegoraro, J. Lindsay  
Venue Twenty-Fourth Annual Conference on Innovative Applications of Artificial Intelligence (IAAI-12), 2012.

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## Education

- 2012–2016 **Master of Science, Artificial Intelligence, *University of Padova.***  
The Computer Science teaching at Università degli Studi di Padova focuses on preparing professionals on development and management of Artificial Intelligence and Machine Learning systems for complex applications. My thesis' topic was Process Mining; specifically, I experimented with the remaining time prediction for running business process instances. Supervisor: Prof. Alessandro Sperduti.
- 2007–2012 **Bachelor of Science, Computer Science, *University of Padova.***  
The Computer Science teaching at Università degli Studi di Padova is focused on software engineering and all-level software projecting.

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## Computer Science Skills

- Fields of competence Good working knowledge of Process Mining and Machine Learning. Some past practical experiences on Natural Language Processing and Computer Vision. Knowledge of the basics aspects of Information Retrieval, Constraint Programming, Operational Research and related fields.
- Programming languages Working knowledge of Java and Python. Past experiences with C++. Intermediate knowledge of OOP principles and design patterns; database design;  $\text{\LaTeX}$  for scientific use.

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## Languages

- Italian **C2 - Native Speaker**  
English **C1 - Professional Proficiency**