

# Roberto Pagano

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## Bio

Roberto Pagano received his BSc in Computer Engineering from Università degli Studi di Palermo in 2010. Within a double degree program, he received the MSc cum laude in Computer Engineering from the Politecnico di Torino and from the Politecnico di Milano in 2012. He got his PhD student in Computer Science at Politecnico di Milano, Department of Electronics, Information and Bioengineering (DEIB), under the supervision of Professor Paolo Cremonesi. During his PhD, he was an exchange student in TU Delft (Netherlands) for six months, under the supervision of Prof. Martha Larson.

His research interests include Context Aware Recommender Systems, Machine Learning, Reinforcement Learning, Optimization, Predictive Modeling, Time Series Analysis, Scalability, Parallel Programming, Cloud computing.

His PhD Thesis focuses on a new conceptualization of recommender systems leveraging context, namely Context-Driven Recommender Systems. This new paradigm is the result of his work in different recommendation domains where context is the main driver of recommendation.

Roberto Pagano worked as intern at British Institutes and gave lectures at Politecnico di Milano and Cefriel.

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## Education

**Computer Science PhD** **2013 → 2016**

*Field: Context aware recommender systems*

Politecnico di Milano

**Computer Engineering Master degree. Mark: 110/110 magna cum laude** **2010 → 2012**

*Thesis on Social Recommender Systems*

Politecnico di Milano

Politecnico di Torino (Alta Scuola Politecnica Double degree)

**Bachelor in Computer Engineering. Mark:110/110 magna cum laude** **2007 → 2010**

*Thesis on VANET-based Emergency Vehicle Warning System*

Università degli Studi di Palermo

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## Publications

Mattia Brusamento, Roberto Pagano, Martha Larson, and Paolo Cremonesi  
Explicit Elimination of Similarity Blocking for Session-based Recommendation.  
*Poster Proceedings of ACM RecSys 2016*

Tommaso Carpi, Marco Edemanti, Ervin Kamberoski, Elena Sacchi, Paolo Cremonesi, Roberto Pagano, and Massimo Quadrana. Multi-Stack Ensemble for Job Recommendation. To appear in *RecSys Challenge 2016*



Roberto Pagano, Paolo Cremonesi, Martha Larson, Balázs Hidasi, Domonkos Tikk, Alexandros Karatzoglou, and Massimo Quadrana. The Contextual Turn: from Context-Aware to Context-Driven Recommender Systems. *Proceedings of the 10th ACM Conference on Recommender Systems (RecSys 2016)*

Babak Loni, Roberto Pagano, Martha Larson, and Alan Hanjalic. Bayesian Personalized Ranking with Multi-Channel User Feedback. *Proceedings of the 10th ACM Conference on Recommender Systems (RecSys 2016)*

Andrea Condorelli, Paolo Cremonesi, Roberto Pagano, Massimo Quadrana and Roberto Turrin. Large Scale Music Recommendation. In *ACM Workshop on Large-Scale Recommender Systems (LSRS 2015)*

Sergio Bittanti, Paolo Cremonesi, Simone Formentin, Andrea Mosconi, Roberto Pagano, Massimo Quadrana. Prediction of TV ratings with dynamic models. In *ACM Workshop on Recommendation Systems for Television and Online Video (RecSysTV 2015)*

Paolo Cremonesi, Primo Modica, Roberto Pagano, Emanuele Rabosio, Letizia Tanca. Personalized and Context-Aware TV Program Recommendations Based on Implicit Feedback. In *E-Commerce and Web Technologies (pp. 57-68). Springer International Publishing.*

Andrea Condorelli, Paolo Cremonesi, Roberto Pagano, Massimo Quadrana and Roberto Turrin. 30Music listening and playlists dataset. In *9th ACM Conference on Recommender Systems (RecSys 2015)*

Paolo Cremonesi, Andrea Condorelli, Roberto Pagano, Roberto Turrin. Time-based TV programs prediction. In *ACM RecSysTV Workshop 2014*  
**[Best Paper award at RecSysTV workshop]**

Paolo Cremonesi, Raffaele Facendola, Franca Garzotto, Matteo Guarnerio, Mattia Natali, Roberto Pagano. Polarized review summarization as decision making tool. In *Proceedings of the ACM 2014 International Working Conference on Advanced Visual Interfaces (AVI2014).*

Paolo Cremonesi, Franca Garzotto, Roberto Pagano, Massimo Quadrana. Recommending without short head. In *Proceedings of the Companion Publication of the 23rd International Conference on ACM World Wide Web Companion (WWW2014).*

Paolo Cremonesi, Roberto Pagano, Stefano Pasquali, Roberto Turrin. TV program detection in tweets. In *Proceedings of the ACM 11th European Conference on Interactive TV and Video (EuroITV 2013).*

## Skills

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**Programming Languages:** Python, Spark, Java, J2EE, C, C++, SQL, NOSQL, Matlab, Julia, PHP, Javascript

**Competences:** Cloud (AWS and OpenStack), Linux, Big Data, Machine Learning, Recommender Systems, Predictive modeling, Data visualization

**Certifications:** BerkleyX edX Big Data XSeries

**Domain Expertise:** Linear TV audience prediction, Music playlist recommendation, Job recommendation, Mobile App usage prediction

**Projects:** Collaboration with Yahoo, RecSys 2016 Competition by Xing (4<sup>th</sup> place), Satellite asset control

**Foreign Languages:** English



## Teaching

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<b>Computing Infrastructures (tutor), Politecnico di Milano</b>	<b>Mar 2015 → Jun 2015</b>
<b>Advanced User Interfaces (tutor), Politecnico di Milano</b>	<b>Oct 2014 → Feb 2015</b>
<b>Algorithms and Parallel Computing (tutor), Politecnico di Milano</b>	<b>Oct 2014 → Feb 2015</b>
<b>Computing Infrastructures (tutor), Politecnico di Milano</b>	<b>Mar 2014 → Jun 2014</b>
<b>Advanced User Interfaces (tutor), Politecnico di Milano</b>	<b>Oct 2013 → Dec 2013</b>
<b>Storage and Virtualization (instructor), Cefriel, Milano</b>	<b>Feb 2013 → Apr 2013</b>