



# Davide Talon

PHD STUDENT IN MACHINE LEARNING

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## Education

2020 - Today | **PhD Student in Machine Learning** | *Istituto Italiano di Tecnologia*

First year PhD student at University of Genova.

Part of the Visual Geometry and Modelling Lab at Istituto Italiano di Tecnologia. Advised by dr. Alessio del Bue.

2017 - 2020 | **M.S. Computer Engineering** | *University of Padova*, 110 cum laude

Thesis: "Contextual Multi-task Learning via Regularization",

Advisor: Alessandro Chiuso.

2013 - 2017 | **B.S. Information Engineering** | *University of Padova*, 103/110

Thesis: "Experimental study of adaptative video streaming algorithms",

Advisor: Andrea Zanella.

## Relevant Working Experiences

**Charanga Ltd** SOFTWARE DEVELOPER INTERN

June 2012 | *Brighton, UK*

Development using Ruby On Rails of the DAMS (Digital Assets Management System) of the company.

## Skills

### Computer skills

Intermediate: Java, Python, Matlab, Keras, Pytorch, MacOS X, Linux - Base: Git, C, Apache Spark, MPI, Windows.

### Presentation

Latex, MS Office: Word, Excel, PowerPoint.

### Soft skills

Team working, leadership, open-mindedness, self-motivation, self-management, curiosity, problem setting, problem solving, persistence.

### English

According to CEFR - Listening: B2, Reading: B2, Writing: B2, Speaking: B2.

## Relevant Coursework

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### Algorithms

Divide and Conquer, Dynamic Programming, Greedy

### Advanced Algorithms

Randomized algorithms, Numerical Problems(Cryptography), Approximation algorithms

### Telecommunication

Source Coding, Channel Coding, Information Theory, ISO/OSI layers and protocols, Network modeling (Markov Chains, Poisson and Markov Processes)

### Machine Learning

Statistical Learning, basic models (SVM, perceptron, Neural Network), PCA, SOM, Deep Learning(FFNN, CNN, RNN), Reinforcement Learning, Speech Recognition, GAN

### Big Data Computing

Clustering(k-means, k-median, hierarchical), Association Analysis, Graph Analytics, MapReduce on Spark

## Pubblication

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D. Talon, L. Attanasio, F. Chiariotti, M. Gadaleta, A. Zanella, and M. Rossi, “Comparing DASH adaptation algorithms in a real network environment”, *accepted in the Proceedings of the European Wireless 2019*, 2-4 May 2019, Aarhus, Denmark.