



**Jacopo  
Pierotti**

**DATE OF BIRTH:**

26/04/1993

## CONTACT

**Nationality:** Italian

**Gender:** Male



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## EDUCATION AND TRAINING

**10/2012 – 06/2015** – Piazza Leonardo da Vinci, 32, Milano, Italy

### **Bachelor's degree in Automation and Control Engineering**

Politecnico di Milano

Acquired technical skills in the following:

- Control systems (Basic and Advanced)
- Robotics
- Mathematical Science, Statistic, Operational Research, physics
- Mechanatronic Systems
- Electronics, Electrotechnics, Power electronic, Electrical Machines

#### **Field(s) of study**

- Automation Engineering

107/110 | EQF level 6 | <https://www.polimi.it/en/>

**10/2015 – 07/2017** – Piazza Leonardo da Vinci, 32, Milano, Italy

### **M.Sc in Automation and Control Engineering**

Politecnico di Milano

Advanced technical skills in the following:

- Control systems (adaptive control, optimal control, lyapunov's theory,..)
- system's theory
- industrial robotics
- model identification and data analysis
- operation research

The thesis was conducted at the ETS university in Montréal.

#### **Field(s) of study**

- Control engineering

110/110 | The EVRP-TW with heterogeneous recharging stations. An exact branch-and-price method | EQF level 7 | <https://www.polimi.it/en/>  
<https://www.politesi.polimi.it/handle/10589/135986>

**01/2018 – CURRENT** – Mekelweg 5, Delft, Netherlands

### **PhD in mathematical optimization**

TU Delft

Advanced technical knowledge in:

- operation research, especially in the metaheuristic field.
- logistic problems
- integer programming methods
- algorithms and complexity

soft skills:

- teaching
- coaching
- presenting
- academic writing

#### **Field(s) of study**

- Optimization

EQF level 8 | <https://www.tudelft.nl/en/>

<https://www.tudelft.nl/staff/j.pierotti/?cHash=d2bd911007b84a39aecba8fec8970e8b>

04/2020 – 05/2020

### Machine Learning with Python: A Practical Introduction

EdX / IBM

#### Field(s) of study

- machine learning

94/100 | <https://www.edx.org/>

<https://www.edx.org/course/machine-learning-with-python-a-practical-introduct?index=product&queryID=9f8f82cf858cf573bc94da84a8cd3331&position=1>

05/2020 – 06/2020

### Reinforcement Learning Explained

EdX / Microsoft

#### Field(s) of study

- reinforcement learning

91/100 | <https://www.edx.org/>

06/2020 – 07/2020

### Deep Learning Essentials

EdX / UMontrealX, Mila and IVADO

#### Field(s) of study

- deep learning

93/100 | <https://www.edx.org/>

<https://www.edx.org/course/deep-learning-essentials?index=product&queryID=7782ff8f90cfed818fc987a5fc5b2ed6&position=1>

07/2020 – 08/2020

### Deep Learning with Python and PyTorch

EdX / IBM

#### Field(s) of study

- artificial intelligence

100/100

<https://www.edx.org/course/deep-learning-with-python-and-pytorch?index=product&queryID=b4f527e485d3aaf4c267bc83500b4381&position=1>

## WORK EXPERIENCE

06/2011 – 10/2011 – verdello, Italy

### Leather Craftsman Worker

Syria di Rovaris Oreste & Co S.N.C.

introduction to the work environment during summer holidays

09/2011 – 12/2016 – Verdello, Italy

### Tutor

Private lectures and tutoring activities

09/2017 – 12/2017 – Montreal, Canada

### Scientific researcher

## École de technologie supérieure (ÉTS)

I worked on an extension of my master thesis (the electric vehicle routing problem with heterogeneous recharging stations, <https://www.politesi.polimi.it/handle/10589/135986>).

I created and designed a column generation algorithm with fast dominance condition checks to solve to optimality a variant of the green electric vehicle routing problem.

My work was under the supervision of Dr Fasuto Errico, Prof. Dr Federico Malucelli and Prof. Dr Guy Desaulniers.

**01/2018 – CURRENT** – Delft, Netherlands

## PhD candidate

TU Delft

PhD candidate under the supervision of Dr Theresia van Essen and Prof. Ir. Dr Karen Aardal.

My research mainly focuses on solving hard routing problems, both from an optimal and (meta)heuristic point of view.

On top of that, Recently I've been investing more and more time in data analysis, artificial intelligence and machine learning (especially reinforcement learning).

For more details, please check my published papers at: <https://scholar.google.com/citations?user=JM0w1fUAAAAJ&hl=en&oi=ao>

## DIGITAL SKILLS

Microsoft Office / C, C++ C# / Python / MATLAB&Simulink / GUROBI / Spyder/Jupyter/Anaconda / PyTorch / Machine Learning / Pandas / Deep Learning / Numpy / Anaconda / Data Science / Matplotlib / Artificial Intelligence

## LANGUAGE SKILLS

**MOTHER TONGUE(S):** Italian

**OTHER LANGUAGE(S):**

### English

Listening	Reading	Spoken production	Spoken interaction	Writing
C1	C1	C1	C1	C1

### French

Listening	Reading	Spoken production	Spoken interaction	Writing
A2	A2	A2	A2	A2

### Dutch

Listening	Reading	Spoken production	Spoken interaction	Writing
B1	B1	B1	B1	B1

## HONOURS AND AWARDS

06/2016

**Borsa di studio PreLaurea Roberto Rocca** – Roberto Rocca education program

06/2017

**Borsa di studio PreLaurea Roberto Rocca** – Roberto Rocca education program

04/2017

**Tesi all'estero scholarship** – Politecnico di Milano

## ORGANISATIONAL SKILLS

### EEMCS PhD council event organizer

During my PhD, I was the main organizer of social events (pub quiz, bowling, live music event, ..) for my fellow colleagues.

## VOLUNTEERING

10/2012 – 10/2016

### volunteer for a centre of people with down syndrome

Via Beltramelli c/o Oratorio di Sabbio Dalmine Bergamo/Lombardia  
24044 Italia

<http://www.sportellovolontariatodalmine.org/le-associazioni/11-sociale/1-boomerang-gruppo-volontari-dalmine.html>

## HOBBIES AND INTERESTS

### Hobbies and interests

-agonistic horse-rider at Centro Ippico Adda Nord, via Crespi 7 Brembate (BG)

-agonistic MMA fighter at Accademia360, Via Borgo Palazzo, Bergamo (BG)

-brazilian jiu jitsu fighter

-rock climber

-cinophile

-drummer

-pizza eater (and maker)