



**Jacopo
Pierotti**

DATE OF BIRTH:
26/04/1993

CONTACT

Nationality: Italian

Gender: Male



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[https://scholar.google.com/
citations?
user=JM0w1fUAAAAJ&hl=en&
oi=ao](https://scholar.google.com/citations?user=JM0w1fUAAAAJ&hl=en&oi=ao)

[https://www.kaggle.com/
jacopopierotti](https://www.kaggle.com/jacopopierotti)

ABOUT ME

Hardworking and eclectic PhD candidate in mathematical optimization becoming a data scientist. Mostly interested in data science for entertainment, healthcare and defence.

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
- Mechanicatronic 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>

06/2019 – 07/2019 – New York, United States

Short research visit

Columbia university

Research visit to work with Dr. Ferretti, Lorenzo.

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

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>

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

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
C1

Reading
C1

**Spoken
production**
C1

**Spoken
interaction**
C1

Writing
C1

French

Listening
A2

Reading
A2

**Spoken
production**
A2

**Spoken
interaction**
A2

Writing
A2

Dutch

Listening
B1

Reading
B1

**Spoken
production**
B1

**Spoken
interaction**
B1

Writing
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)