

# Chiara Relandini



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**Nationality** Italian  
**Birthdate** October 26, 1996

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## EDUCATION

- Sept 2018 - now Master Degree in Computer Engineering (Machine Learning and Data Science)  
Politecnico di Milano - Milano, Italy
- Sept 2015 - July 2018 Bachelor Degree in Computer Engineering - grade 110L/110  
Young Talents program, lessons and exams in English  
Politecnico di Torino - Torino, Italy
- Sept 2010 - July 2015 High School Diploma - MATURITÀ SCIENTIFICA - grade 100/100  
Liceo John Fitzgerald Kennedy - Roma, Italy

## INTERNATIONAL EXPERIENCE

- Sept 2017 - Jan 2018 Young Talents program, international exchange  
UPM - Universidad Politécnica de Madrid - Madrid, Spain
- July 2014 English language course - TOEFL Preparation  
ELC - Santa Barbara, CA, United States
- Sept 2013 - Dec 2013 International exchange semester with Educatius  
Nauset Regional High School - Eastham, MA, United States

## LANGUAGE SKILLS

- Native Language Italian
- Certificates English: C1 CAE: Certificate of Advanced English, Cambridge  
Spanish: C1 DELE C1

## IT SKILLS

- Programming Languages C, Java, Python, php, HTML, SQL, React Native, C++
- Hardware Languages VHDL
- Middleware, Databases Apache, Active MQ, MySql, MariaDB, ROS
- Unit testing Junit
- Development Platforms GitHub, AWS, Kaggle, Google Cloud Platform
- IDE Eclipse, Android Studio, PyCharm, IntelliJ Idea

• 3D printing      SketchUp

• Numeric calculus      Matlab

## MASTER THESIS

I'm currently working on my Master Thesis which deals about Agricultural SLAM. It consists in developing an algorithm for localization and mapping of a robot navigating in an agricultural field. The project works on a ROS nodes architecture. The aim is to perform Graph SLAM using the crop rows as landmarks.

## ACADEMIC PROJECTS

**Self Driving Car** - The Batcar is a project for the Computer Architecture Course at Politecnico di Torino, whose main purpose is to develop a self driving car model. It consists in programming an FPGA board (Xilinx - Nexys4), designing and 3D-printing the frame of the car. <https://github.com/chiararelandini/Batcar>

**Ambient Intelligence** - HouseOnFire is a Python based project for Politecnico di Torino, whose purpose is to manage all aspects of an house party, such as music, lights and noise threshold. Its most innovative feature is to track guests' movement in the house through an Android mobile application able to scan Estimote Bluetooth Beacons. <https://ami-2018.github.io/HouseOnFire/>

**Mobile App** - Kangoo is a cross platform (iOS and Android) and multi device mobile application (in React Native) for Politecnico di Milano aimed at event management. Authentication and data storage is managed through Amazon Web Services. Integration with Google and Facebook is also provided, for authentication and map views.

**Deep Neural Networks** - Three projects at Politecnico di Milano developed on Kaggle notebooks in Python to build respectively an Image Classification, an Image Segmentation and a Visual Question Answering network and train them on real data.

**Recommender Systems** - A project for Politecnico di Milano consisting in developing a toy recommender system in Python for experiencing various techniques. Among these there are personal, non personal and hybrid recommenders.

## PERSONAL SKILLS AND INTERESTS

- During my long Scout experience I've learned both team-working and leadership. I was trained to get by with my group by working together and to lead my team.
- I play tennis at competitive level since I was 14. It made me learn how to pacifically solve arguments, firmly supporting my own point of view. It also made me understand what struggling for a goal means, going beyond your limits, and how satisfying it is to reach your targets with your own strengths.
- I play piano and practice sports: tennis, windsurf, kitesurf, beach volley, running, skiing.
- I like traveling to see the world and how other peoples live. I like taking pictures and editing video.

## OTHER INFORMATION

- Driving license, own car
- Available to travel on business in Italy, abroad

In compliance with Italian legislative Decree no.196 dated 30/06/2003,  
I hereby authorize the user of this document to process my personal data.