

# ANDREA DERETTI

## Statistical Learning Graduating Student

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Milano (MI), ITA

4 December 1998 (ITA)

## Education

### Master's degree thesis in Computer Vision

#### DEIB-Politecnico di Milano

April 2022 – Present

Milano, Italy

**Topic:** Robust adversarial attacks against object detection model.

**Supervisor:** Professor Giacomo Boracchi (giacomo.boracchi@polimi.it)

### Erasmus Exchange

#### Sorbonne Université

Jan 2021 – June 2021

Paris, France

### M.Sc. in Statistical Learning

Current GPA: 26.05/30 [ToR]

#### Politecnico di Milano

Sept 2020 – Present

Milano, Italy

**Extra:** Been a buddy with the 'Buddy Project'.

### B.Sc. in Mathematical Engineering

Vote: 101/110 [ToR]

#### Politecnico di Milano

Sept 2017 – July 2020

Milan, Italy

**Extra:** Attending 2 'Passion in Action', extra-courses in Machine Learning, Advanced Analytics, Quantum Computing and Coding.

## Teaching

### GoStudent

March 2022 – present

Milano, Italy

- English, math and physics tutor to high school students with online lectures.

### BrixiAmaTe

Aug 2019

Brescia, Italy

- Combinatorics and Probability teacher in a national stage in preparation for Mathematical Olympiad.

## Stages

### Board of European Students of Technology: BEST

Febr 2019

Ekaterinburg, Russia

- International stage participant of 'Are you ready to reveal the secrets of logistic?' helded in Ural State University of Railway Transport.

## Main Projects

- Graphical models** [🔗]  
Developing Bayesian methods for the analysis of multivariate categorical data. Python
- Time Series forecast** [🔗]  
Forecasting seven different signals using Recurrent Neural Networks. Python
- Leaf classification** [🔗]  
Building a Convolutional Neural Network in order to classify images of leaves. Python

## Awards

### General

#### High School Scholarship 2017

As one of the two best high school graduted students in Mornico al Serio.

#### Neuroscience Olympiads Contest 2017

1st pl. in the local phase at 'Istituto Di Istruzione Superiore Cristoforo Marzoli'.

### Mathematics

#### Kangourou of Mathematics 2017

2nd pl. in the local phase at 'Istituto Di Istruzione Superiore Cristoforo Marzoli'.

#### Math Olympiads 2015-2017

Attending the National Phase of the team contest.

## Coding

Machine Learning: Python, R

Deep Learning: PyTorch, Tensorflow

Math: MATLAB, Python, R, AMPL

Big Data: SQL

Programming: C, C++

Markup Language: LaTeX

## Languages

- Italian: C2 (Native Speaker)
- English: C1
- French: A2

## Presentations

#### Palazzolo Digital Hub 2017

In a team of two, we designed, produced and programmed in RobotC a **pen plotter** in Lego Mindstorm which was exposed at 'Palazzolo Digital Festival 2017'.

## Other Interests

- Basketball Player** for Pallacanestro Palosco  
Playing in the Promozione 2021/2022.
- Volunteer** in a summer 2013-2016  
recreation center (4 weeks of child caring).
- Long distance **hiker** and **cycle tourist**.