



# Paolo Vergottini

## Mathematical Engineer

As a mathematical engineer, I long for the complete understanding of problems, tackling them with statistics and programming.

## Contact

Born on 11 December 1998

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[paolo-vergottini-934015187](#)



[github/paolo-vergo](#)

## Portfolio



[github\\_pages](#)

## Languages

### ITALIAN

Mother Tongue

### ENGLISH

C1 IELTS

International House Milano

### GERMAN

A2 ÖSD

Deutsch Institut Milano

## Programming

R (developer)

C++ / C

Python

Matlab

Microsoft Office

SQL

Latex

GitHub

## Education

### MSC. MATHEMATICAL ENGINEERING - STATISTICAL LEARNING

Politecnico di Milano Sept 2019 - April 2022

Final mark: 110/110 cum laude

*Thesis: "A complete suite for conformal prediction of simple and complex data in  $r$ , with some theoretical extensions"*

### BSC. MATHEMATICAL ENGINEERING

Politecnico di Milano Sept 2016 - Sept 2019

Final mark: 101/110

*Final presentation: "Interest communities and flow roles in directed networks: The twitter network of the UK riots"*

**Erasmus** Technische Universität Wien (TUW) - Vienna

### HIGH SCHOOL - LICEO SCIENTIFICO

I.S.I.S. Stein Gaviate (VA) Sept 2012 - July 2016

Final mark: 100/100

## Projects

### CONFORMAL PREDICTION PACKAGES



R

Developed and uploaded on CRAN two R packages to handle Conformal Prediction for regression: *conformalInference.multi* (for multivariate responses) and *conformalInference.fd* (for multivariate functional responses).

### HIERARCHICAL BAYESIAN NONPARAMETRIC MODEL TO SMOOTH FUNCTIONAL DATA



C++ / R

### CLASSIFICATION, SEGMENTATION AND VQA WITH CNN



Python  
Tensorflow

## Volunteering

### SCOUT LEADER (AGESCI)

2018 - current

This experience equipped me with the capacity to treat others fairly, to observe and react to problems, to discuss strategies and program activities with my team. Overall I acquired crucial organizational and teamworking skills.

### ERASMUS STUDENT NETWORK (ESN)

2020 - current

### ASSOCIATION MATHEMATICAL ENGINEERS (AIM)

2018 - 2019

## Interests

### PRIVATE TUTOR

2016-2022

Private lessons of Mathematics/Statistics to graduate and undergraduate students.