



# Antonio Tescari

## ● EDUCATION AND TRAINING

OCT 2018 – OCT 2021 Italy

**BACHELOR DEGREE IN BIOMEDICAL ENGINEERING** Università di Pavia

NOV 2021 – CURRENT

**MASTER DEGREE IN BIOMEDICAL ENGINEERING** Università di Pavia

Main subject / occupational skills covered:

- Mathematics (analysis and algebra fundamentals)
- Fundamentals of cellular biology and genetics
- Strong statistics background
- Statistical learning theory
- Mathematical modelling, mainly applied to the pharmaceutical domain (pharmacokinetic, pharmacodynamic)
- Classical and object oriented programming
- Design and development of a distributed system in Java
- Microprocessor's CPU architecture and programming
- Teamwork

FEB 2023 – JUL 2023 Gent, Belgium

**ERASMUS+ EXCHANGE PROGRAM** Gent University

- Algorithms for sequence alignment: Needleman-Wunsch, Smith-Waterman, bitpal
- Markov models, Viterbi algorithm and applications to multiple alignment
- Data structures and algorithms for string matching: suffix trees, suffix arrays, Burrows-Wheeler transformation, FM index
- De Bruijn graphs and application to genome assembly
- Basics of Python

**Field of study** Bioinformatics

## ● LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	B2	B2	B2	B2	B2

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## ● DIGITAL SKILLS

**Good knowledge**

Java | Microsoft Word, Excel, Powerpoint | Matlab

**Some experiences**

R | Python