

DESIREE MANICARDI

Ph.D. in Computer Science and Computational Mathematics

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dmanicardi

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SOMMARIO

- ✦ Bachelor's and Master's degrees in Computer Science (CS) + Ph.D. in Computer Science and Computational Mathematics.
- ✦ 4+ years of experience in academia, focusing on modelling biological systems in **Python** – code available on [dmanicardi](#)
- ✦ 15+ projects at university ([further information here](#)): 8 considering sw requirements and UML, 2 using JavaScript and 2 using SQL.
- ✦ 20+ attended CS courses in the past 4 years, while several courses in computer engineering and requirements analysis during my Master's degree.
- ✦ Some certifications such as:
 - "Data Access in C# and .NET Core";
 - "Asynchronous Programming with JavaScript".
- ✦ Since December 2023, I have been managing my website using HTML, CSS, Bootstrap, and JavaScript.

🇮🇹 Italian: native.

🇬🇧 English: Upper-Intermediate level: FCE Certificate (CEFR B2) & PhD in English & Scientific Papers & Speaker @ ICTCS 2023.

CS SKILLS *selected*

Mainly used:

Java Python SQL NoSQL

Used for projects and courses:

Programming: C; C++; C#

Programming technique: OOP; real-time

Web: HTML; PHP; CSS; Bootstrap; JavaScript; AJAX

Database: PostgreSQL; MySQL; PHPMyAdmin; MongoDB

Diagrams: ER; UML; KAOS; Problem Frames

Formats: JSON

IDEs & platforms: Eclipse; GitHub; Node.js;

Android Studio; ArduinoUNO

Tools: pgAdmin; Node-RED

SO: Linux; Windows

HOBBY

Genealogy Tree (already since 1768) 🌳 & Learning Turkish (CEFR A1) 🇹🇷

FOR FURTHER INFORMATION

See my [my website](#) or scan the QR code:



CURRENT POSITION

Didactic Tutor for the course *Didattica dell'Informatica* | [University of Milan-Bicocca](#)

📅 04 2025 – now

📍 Milan, Italy

EDUCATION

Ph.D. in Computer Science and Computational Mathematics | [University of Insubria](#)

📅 11 2020 – 05 2024

📍 Como, Italy

- Thesis: *Formal Models for Biological Systems*.
- I focused my research on *formal models for biological systems*. I mainly worked on a model to formalise a process algebra. It is user-friendly, easy to implement, and tailored for modelling *biochemical reaction networks*. The main contribution is related to the study of the *robustness* of biochemical networks.
- Main courses (in English): *Bioinformatics, IoT, Cryptography, Modeling and Verifying Hybrid Systems*.
- Camp: *Innovation Camp for PhD Students – Deep Dive Into Innovation and Execution* (03-05/2021, in English).

Master's degree in Computer Science | [University of Insubria](#)

📅 12 2016 – 07 2018

📍 Varese, Italy

- Thesis: *Modelling a Dual Chamber Pacemaker in Span(Graph)* (in Italian), 110/110 cum laude.
- Main courses: *Software Engineering, Requirements Engineering, Programming in Java and C, Models of Computation, Models for Biological Systems, Privacy and Security, Artificial Intelligence*.

Bachelor's degree in Computer Science | [University of Insubria](#)

📅 09 2013 – 12 2016

📍 Varese, Italy

- Thesis: *Design and development of an application for filtering Twitter messages*, 101/110.
- Main courses: *Database, Privacy and Security, Coding theory, Programming in Java, Software Design, Web applications*.

WORKING EXPERIENCE

Recognised Researcher | [University of Insubria](#)

📅 03 2024 – 02 2025

📍 Como, Italy

- Research Title: *Specification and analysis of behavioural differences in biomedical systems*.
- PRIN 2022 Project: *MEDICA: Modelling and vErification of alkaptonuria and multiple sclerosis Driven by biomedical data*.
- Programming languages: Python and mainly Java.
- See the website [here](#).

Traineeships | [University of Insubria](#)

- (11 2017 – 05 2018) AAnalysis of the Span-Cospan(Graph) formalism, focusing on timing.
- (02 2016 – 09 2016) Design and development of a web application aimed at filtering tweets using Twitter API.

TEACHING EXPERIENCE

Experience in delivering **Python** and **Java** laboratory lectures for Bachelor's and Master's students, in **Italian**. I am currently a didactic tutor.