



Vincenzo Colella

Date of birth: 27/09/1997 | **Nationality:** Italian | **Gender:** Male | **Phone**

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Address: Via Francesco Saverio Nitti 9, 00191, Roma, Italy (Home)

WORK EXPERIENCE

ACADEMIC PROJECTS

AI & Machine Learning :

1. **Master Thesis:** Designed and implemented a neural network for accelerating MRIs using a Res-U-Net (Fully Convolutional Network) in collaboration with the Italian 'National Institute for Nuclear Physics'.
2. **Fighting Fake News:** Implemented a deep-learning program to detect spliced images, made of a Siamese network and two MLPs.
3. **Attention2Angio:** Implemented a GAN-based model with attention mechanism for Synthesizing Fluorescein Angiography.
4. **Human-Robot Interaction:** Designed an algorithm that allows a Pepper robot to communicate with humans and show them the fastest path to their goal location, using Pepper SDK and planning algorithms.

Full Stack Software Development:

1. Relational Database Management: Proficient in designing and implementing full relational databases for mobile applications using **SQL**.
2. Embedded Systems Development: Experienced in developing various projects using **C++** for Arduino.
3. Web Development: Skilled in designing and implementing dynamic websites using **HTML, Javascript, PHP**, and **JQuery**, as well as utilizing **AJAX** for asynchronous data retrieval.
4. Graphics Development: Proficient in implementing various scenes and models using Yocto-GL in **C++**.
5. Mobile Application Development: Experienced in developing mobile applications (Android) using **Java**.

I organized and led two successful seminars on 'EPSRC Principles of Robotics' and 'Balancing Explicability and Explanations for Human-Aware Planning in Robotics'.

All my projects can be found on Github: <https://github.com/vincenzocolella>

EDUCATION AND TRAINING

2020 – 2022

MASTER IN ARTIFICIAL INTELLIGENCE AND ROBOTICS Università degli Studi di Roma "La Sapienza"

I completed a Master's degree in Engineering, specializing in Artificial Intelligence, Machine Learning, and Robotics. The program was entirely taught in English.

Relevant Exams Completed During Master's Degree:

- Machine Learning ► Reinforcement Learning
- Artificial Intelligence ► Neural Networks
- Robotics 1 and 2 ► Neuroengineering
- Autonomous and Mobile Robotics ► Cloud Computing
- Computer Vision ► Network Infrastructures

09/2018 – 02/2019 Prague, Czechia

ERASMUS PROGRAM Czech Technical University

I spent a semester studying abroad at the IT Faculty of the Czech Technical University of Prague, Czech Republic, where I had the opportunity to immerse myself in a new academic environment and culture.

Address Prague, Czechia

09/2016 – 09/2020 Roma, Italy

BACHELOR OF COMPUTER SCIENCE Università degli Studi di Roma "La Sapienza"

Bachelor's Degree in Computer Science.

Address Roma, Italy

09/2012 – 07/2016 Roma, Italy

SECONDARY SCHOOL DIPLOMA Convitto Nazionale Vittorio Emanuele II

I completed my high school education with a concentration in Science, where I also studied English language. Additionally, I earned a double degree in Italian and French under the ESABAC program.

Address Roma, Italy

● LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s): **ENGLISH - C1** | **FRENCH - C2** | **PORTUGUESE - C1**

● DIGITAL SKILLS

Proficiency in

Python | Java | SQL | C++ | PHP | JavaScript | C | Bootstrap | Assembly | Node.js | Arduino | SPARQL | Bootstrap | Git | JQuery

● ADDITIONAL INFORMATION

CONFERENCES AND SEMINARS

07/2021 – 08/2021 – Nanyang Technological University Singapore

Machine Learning Summer School - Taipei, Taiwan

Link <https://ibb.co/z4KMr8S>

07/2022 – 08/2022

Oxford Machine Learning Summer School - OxML 22

Link <https://ibb.co/6JB0TmL>

01/2022

AWS Academy Graduate - AWS Academy Cloud Foundations

Link <https://www.credly.com/go/MxHigI6Q>

COMMUNICATION AND INTERPERSONAL SKILLS

International Experience I had the privilege of living in various countries during my childhood, including the **United States of America** (1997-1999), **Italy** (1999-2004 and currently), **Brazil** (2004-2008), **Switzerland** (2008-2012), and the **Czech Republic** (2018-2019). Additionally, I spent a semester in New York (USA) after completing high school to learn English.

Furthermore, my family has recently relocated first to **Norway** and then to **Costa Rica**, providing me with even more opportunities to experience diverse cultures and customs firsthand.