



# ANDREA GRAVILI

## COMPUTER SCIENTIST

### ABOUT ME

I have been immersed in the field of Computer Science since a young age, harboring a keen interest in astronomy and consistently striving for excellence. This journey has honed my skills as a proficient problem-solver with a resolute commitment to advancing technological research.

### EDUCATION

#### ○ SAPIENZA, UNIVERSITY OF ROME

09/2024 - current

##### **Master's degree in AI and Robotics**

#### ○ UNIVERSITY OF TRENTO

09/2021 - 07/2024

##### **Bachelor's degree in Computer Science**

#### ○ ITIS G.PERLASCA

09/2016 - 06/2021

##### **High School degree in Computer Science**

### WORK EXPERIENCE

#### ○ ROBOTICS SOFTWARE ENGINEER | 10/2024 - CURRENT

##### **Sapienza - SASA**

Skills: ROS2, C++, Python, Electronic. Developing the navigation stack for a rover. Working directly on the firmware and also on the autonomous planning and search.

#### ○ ROBOTICS SOFTWARE ENGINEER | 08/2024 - 10/2024

##### **University of Trento**

Skills: ROS, C++, Python, JavaScript. Made a software with an easy to use GUI for interacting and make move an humanoid robot, tested on Wired Next Fest of Rovereto 2024.

#### ○ ROBOTICS SW. ENGINEER INTERN | 02/2024 - 06/2024

##### **University of Trento**

Skills: ROS, C++, Python, software for the interaction with an humanoid robot, path planning, problem solving

##### **Goals achieved:**

- Robot interaction with people at the Trento Museum of Sciences
- Tested software in 2 big scenarios (University and MUSE)

#### ○ UNIVERSITY TUTOR | 09/2023 - 02/2024

##### **University of Trento**

*University tutor for the course: software engineering*

Skills: JS (node.js), react.js, HTML + CSS, building of a software architecture, Mongo DB, agile, leadership, communication, creativity

##### **Goals achieved:**

- Helped multiple students with their projects with positive feedback
- Better communication and teaching skills

### CONTACTS

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- andrea.gravili8@gmail.com
- Italy, Rome (RM)
- andreagravili.vercel.app
- www.linkedin.com/in/andrea-gravili-b1b808254
- github.com/TitanWasHere

### AREAS OF EXPERTISE

- Software engineering
- ROS programming
- Web programming
- UI design

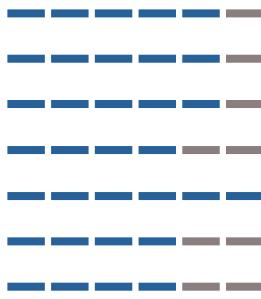
### LINGUISTIC SKILLS

- Italian (mother tongue)
- English C1

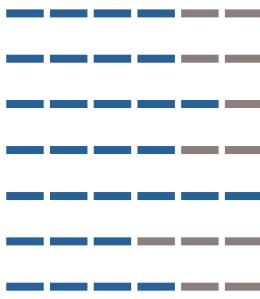
## DIGITAL SKILLS

### PROGRAMMING LANGUAGES AND SIMIL

- C
- C++
- Python
- Java
- HTML+CSS
- Node.js
- MatLAB



- Vue.js
- React.js
- ROS
- PHP
- MongoDB
- PostgreSQL
- R



### COMPUTER BASICS

- Docker
- Git



- Unix
- Office



## PROJECTS

### ROBOT KINEMATICS USING ML

12/2024 - 1/2025

This is a project for the university course 'Machine Learning'. It aims to use machine learning to calculate the kinematics of a robot manipulator. The project is made with Python and Tensorflow.

**Github:** <https://github.com/TitanWasHere/Autonomous-kinematics-manipulator>

### ARI THESIS

02/2024 - 07/2024

Project for the University of Trento, which deals with a humanoid robot named ARI. My responsibility in this project is to manage the speech and listening node, as well as the calibration and path planning.

**Github:** [github.com/TitanWasHere/ARI-thesis](https://github.com/TitanWasHere/ARI-thesis)

### ISS4U

09/2022 - 09/2023

Project for the university course 'Software Engineering', it's an application to manage tasks on the International Space Station (ISS) and display data about that. The website is made with node.js and vue.js

**Github:** <https://github.com/SE-T28>

## HONOURS AND AWARDS

### WINNER OF THE 2024 VENETOSTARS EDITION

22/05/2024

Won the 2024 VenetoStars project for developing a solution using space data to protect the UNESCO site of the Prosecco Hills. The project, named Safe-Hills, was presented at the Space Meeting 2024 in Venice.

**Website:** <https://venetostars.com/#winnerd>