

PERSONAL INFORMATION



Giuseppe Riggio

📍 Via F. Filzi, 2, 42124 Reggio Emilia (Italy)

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✉ giuseppe.riggio@unimore.it

Sex Male | Date of birth 31/01/1991 | Nationality Italian

WORK EXPERIENCE

01/06/2016–31/10/2016

Research fellow

University of Modena and Reggio Emilia, Reggio Emilia (Italy)

Design of a multi-robot system for monitoring a vineyard, as part of the project "Sostenibilità ed Innovazione nella filiera vitivinicola" (SOSTINNOVI)

05/2015–02/2016

Stage

University of Modena and Reggio Emilia - Department of Sciences and Methods for Engineering, Reggio Emilia (Italy)

- Learning ROS (Robot Operating System)
- Design of a navigation algorithm based on Danger Field
- Control of mobile robots

11/2012–09/2013

Stage

University of Modena e Reggio Emilia - Department of Sciences and Methods for Engineering, Reggio Emilia (Italy)

- Design of a navigation algorithm for a quadrotor
- Use of a Raspberry Pi board
- Position control of a UAV

EDUCATION AND TRAINING

01/11/2016–Present

Doctorate (Ph.D)

University of Modena e Reggio Emilia, Reggio Emilia (Italy)

Ph.D in Industrial Innovation Engineering

- Control of a dual robot system UGV-UAV for monitoring a vineyard
- Control of a UAV by image servoing
- Autonomous navigation of UGVs and AGVs
- Passivity based control

07/05/2018–07/11/2018

Exchange Student

University of Technology, Sydney (Australia)

- Position based visual servoing
- Manipulators planning
- Automatic apple picking

12/12/2013–12/04/2016

Master Degree in Mechatronic Engineering

University of Modena and Reggio Emilia, Reggio Emilia (Italy)

110/110 with Honors

- Robotics
- Programming
- Control of mechatronic systems

24/09/2010–10/12/2013

Bachelor's degree in Mechatronic Engineering

University of Modena and Reggio Emilia, Reggio Emilia (Italy)

110/110 with Honors

- Math
- Physics
- Electronics
- Computer Science
- Robotics

09/2005–07/2010

High school Graduation

Istituto Tecnico Industriale Antonio Panella, Reggio di Calabria (Italy)

100/100 with Honors

- Math
- Electronics
- Telecommunications
- Computer Science
- Control of Automatic Systems

PERSONAL SKILLS

Mother tongue(s) Italian

Foreign language(s)

| | UNDERSTANDING | | SPEAKING | | WRITING |
|---------|---------------|---------|--------------------|-------------------|---------|
| | Listening | Reading | Spoken interaction | Spoken production | |
| English | B2 | B2 | B2 | B2 | B2 |

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
 Common European Framework of Reference for Languages

Digital skills

| SELF-ASSESSMENT | | | | |
|------------------------|-----------------|------------------|------------------|------------------|
| Information processing | Communication | Content creation | Safety | Problem solving |
| Independent user | Proficient user | Independent user | Independent user | Independent user |

Digital skills - Self-assessment grid

Programming languages:

MATLAB, C, C++, Python, Java

Software: SolidWork, Office Suite, LaTeX, MATLAB/Simulink, ROS

Operating System: Windows, Ubuntu

Driving licence B

ADDITIONAL INFORMATION

- Publications** "On the Use of Energy Tanks for Multi-Robot Interconnection" Authors: Giuseppe Riggio, Cesare Fantuzzi, Cristian Secchi. International Conference on Intelligent Robots and Systems (IROS), Madrid, Spain, 2018.
- Publications** "A Low-Cost Navigation Strategy for Yield Estimation in Vineyards" Authors: Giuseppe Riggio, Cesare Fantuzzi, Cristian Secchi. International Conference on Robotics and Automation (ICRA), Brisbane, Australia, 2018.
- Publications** "Safe Navigation and Experimental Evaluation of a Novel Tire Workshop Assistant Robot" Authors: Alessio Levratti, Giuseppe Riggio, Antonio De Vuono, Cesare Fantuzzi and Cristian Secchi. International Conference on Robotics and Automation (ICRA2017), 2017.
- Publications** "A Natural Infrastructure-Less Human-Robot Interaction System" Authors: Valeria Villani, Lorenzo Sabattini, Giuseppe Riggio, Cristian Secchi, Marco Minelli and Cesare Fantuzzi. IEEE Robotics and Automation Letters.
- Publications** "Cooperazione sicura uomo-robot in un compito di trasporto e montaggio ruote mediante Danger Field" - Author: Giuseppe Riggio, Supervisor: Cristian Secchi - Master Degree Thesis
- Publications** "Sviluppo di un sistema di navigazione autonomo per un quadrirotore" - Author: Giuseppe Riggio, Supervisor: Cristian Secchi - Bachelor's Degree Thesis