

# Federico Baldisseri

## EDUCATION

---

### PhD in Automatic Control, Bioengineering and Operations Research

*DIAG, Sapienza University of Rome*

Research interests: Automatic Control Theory and AI for Healthcare

**Rome, Italy**  
2022-Present

### Master of Science in Control Engineering

*DIAG, Sapienza University of Rome*

- Graduation grade 110/110 cum Laude
- Selected in the top 5% of the course for the Student Honors Program
- Master Thesis: *Artificial Intelligence and Music Therapy in Support of Pediatric Neurorehabilitation*. It is presented a state-of-the-art study on learning algorithms for biomedical applications and on music therapy techniques. It is performed the conception and initial implementation in Unity of five rehabilitative games which train different cognitive faculties. An Artificial Neural Network architecture is designed in order to automatically adapt the game difficulty to the current capabilities of the child. Experimental simulations from a first data collection are analyzed and discussed. Further developments for an effective implementation in a pediatric hospital are designed.

**Rome, Italy**  
2020-2022

### Bachelor of Science in Management Engineering

*DIAG, Sapienza University of Rome*

- Graduation Grade: 110/110 cum Laude
- Selected in the top %10 students of the course

**Rome, Italy**  
2017-2020

### High School

*Classical Liceum F. Vivona*

- Graduation Grade: 100/100
- Worthy Student Award

**Rome, Italy**  
2012-2017

## WORK EXPERIENCE

---

### Sailing instructor

*Argentario Federal Sailing School*

- Sailing lessons for children and adults

**S. Stefano, Italy**  
summer 2016-2021

### Private lessons

- Private lectures for middle and high school on maths, physics, and science

**Rome, Italy**  
2020-Present

## LANGUAGES AND COMPUTER SKILLS

---

- **Languages:** Italian (native), English (Cambridge FCE), French (Delf B1)
- **IT skills:** Matlab, Simulink, Python, AMPL, C++, C#, Microsoft Office Package, Latex, SQL

## ADDITIONAL EXPERIENCE

---

- Pianist, Music Producer, Drone Pilot and Video Editor. YouTube channel: ArmonArt
- Founder of the Armon project in collaboration with Direzione Musei Statali della Città di Roma (Management of Rome public museums) in 2021, and with Comune di Città di Castello in 2022, to promote Arts and Culture