



# Alessandro Azzani

🌐 Italian  
📅 22 February 2000  
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in Alessandro Azzani

## EDUCATION

Sep 2022 - Jul 2024

**ETH Zürich**  
*Master of Science in Physics*

Zurich, Switzerland

Current GPA: 5.89/6 📄

Semester Thesis:

- TITLE: “*Gluing Manifolds in the BV-BFV Formalism*” 📄
- SUPERVISOR: Dr. Nima Moshayedi
- OFFICIAL SUPERVISOR: Prof. Dr. Gian Michele Graf

Sep 2019 - Jul 2022

**University of Bologna**  
*Bachelor of Science in Physics*

Bologna, Italy

Final grade: 110/110 cum laude 📄

Thesis:

- TITLE: “*Spectral Methods in Geometric Deep Learning*” 📄
- SUPERVISOR: Prof. Dr. Rita Fioresi

Sep 2014 - Jul 2019

**Liceo Scientifico “A. Tassoni”**  
*Highschool Diploma*

Modena, Italy

Final grade: 100/100 📄

- Highschool with a focus on scientific subjects

## WORK EXPERIENCE

2019 - 2023

**Private Tutor**

Modena, Italy / Online

- Tutoring highschool and undergraduate students on scientific subjects, e.g. mathematics, physics and chemistry

## CONFERENCES

25 - 28 Jul 2022

**School in Geometric Deep Learning** 📄

Pescara, Italy

- Intensive school focused on Geometric Deep Learning
- Among the speakers were Prof. Michael Bronstein, Cristian Bodnar and Francesco Di Giovanni

## EXTRA ACTIVITIES

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*Sep 2017 - Jul 2018*

### **Vecchi-Tonelli Conservatory** *Higher Institute of Musical Studies*

Modena, Italy

- Piano player in various bands and orchestras
- Started learning piano in 2008 with private lessons

*Sep 2018 - Dec 2018*

### **University-Hospital of Modena** *Volunteering*

Modena, Italy

- Supportive role for nurses
- Helped patients in everyday tasks

*Sep 2012 - Oct 2019*


### **A.S. La Fratellanza 1874** *Athletics*

Modena, Italy

- Specialized in high jump and pole jump
- Competed for regional leading athletics club

## LANGUAGES

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- **Italian:** *Native*
- **English:** *Fluent* IELTS certificate: C1 
- **German:** *Basic* ETH german course: A2

## DIGITAL SKILLS

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### **Programming**

Python, Julia, C++, L<sup>A</sup>T<sub>E</sub>X

### **Software/Tools**

Arduino, Git, ROOT-Cern, LabVIEW, Linux, Microsoft Office

## PROJECTS

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*Feb 2023 - Dec 2023*

### **Peppa Feed**

- Building a cat feeder, controlled through an app on the phone
- Screw 3D printed, controlled by a stepper motor and an Arduino

*Feb 2020 - Jun 2020*

### **SIR Simulation (C++)**

- Team work for the course “*Computer Programming in Physics*”
- Simulation of the spreading of infectious diseases in a population

*Jan 2022 - May 2022*

### **Neuronal Synchronization Simulation (C++)**

- Team work for “*Introduction to Complex Systems’ Physics*”
- Simulation of a neuronal network using Hopfield network model
- Simulate the synchronization of neurons in different graphs

*Jun 2023*

### **Prisoner’s Dilemma Simulation (Python)**

- Team work for the course “*Controversies in Game Theory*”
- Simulate population playing different spatial cooperative games
- Study of the influence of probabilistic abstention