Alessandro Azzani

- Italian
- 22 February 2000
- Cäsar-Ritz-Strasse 5, Zurich, Switzerland
- +39 3881012096
- aazzani@ethz.ch
- alessandroazzani
- Alessandro Azzani

EDUCATION

Sep 2022 - Sep 2024

ETH Zürich — Zurich, Switzerland
Master of Science in Physics

Current GPA: 5.91/6 📄

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

Research Project:
- TITLE: *Mitigating Crosstalk and Generating Photonic Tree Graph States in Superconducting Circuits"* 📄
- PRINCIPAL INVESTIGATOR: Prof. Dr. Andreas Wallraff

Sep 2019 - Jul 2022

University of Bologna — Bologna, Italy
Bachelor of Science in Physics

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" — Modena, Italy
Highschool Diploma

Final grade: 100/100 📄

- Highschool with a focus on scientific subjects

WORK EXPERIENCE

Sep 2019 - Jun 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

Sep 2017 - Jul 2018 **Vecchi-Tonelli Conservatory**   Modena, Italy
Higher Institute of Musical Studies

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

Sep 2018 - Dec 2018 **University-Hospital of Modena**   Modena, Italy
Volunteering

- Supportive role for nurses
- Helped patients in everyday tasks

Sep 2012 - Oct 2019 **A.S. La Fratellanza 1874**   Modena, Italy
Athletics

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

LANGUAGES

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

DIGITAL SKILLS

Programming   Python, Julia, C++, LaTeX

Software/Tools   Arduino, Git, ROOT-Cern, LabVIEW, Linux, Microsoft Office

PROJECTS

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