Alessandro Azzani

🌐 Italian
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EDUCATION

Sep 2022 - Present

ETH Zürich   Zurich, Switzerland
Master's Degree in Physics

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   Bologna, Italy
Bachelor's Degree 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

2019 - Present

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 and its applications
- ○ Speakers: Prof. Micheal Bronstein, Christian Bodnar and Francesco Di Giovanni

EXTRA ACTIVITIES

Sep 2018 - Jul 2019 **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 2019 - Dec 2019 **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   Phyton, Julia, C++, LaTeX

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

PROJECTS

Feb 2023 - Present **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