



Alessandro Azzani

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EDUCATION

Sep 2022 - Jul 2024

ETH Zürich Zurich, Switzerland
Master of Science in Physics

Current GPA: 5.89/6 📄

Semester Thesis: “*Gluing Manifolds in the BV-BFV Formalism*”

Sep 2019 - Jul 2022

University of Bologna Bologna, Italy
Bachelor of Science in Physics

Final grade: 110/110 cum laude 📄

Thesis: “*Spectral Methods in Geometric Deep Learning*”

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

PROJECTS

Jan 2022 - Jul 2022

Bachelor’s Thesis 📄

- TITLE: “*Spectral Methods in Geometric Deep Learning*”
- Introduction to deep learning algorithms for graph-like data
- Discussion of main concepts of graph theory

Mar 2023 - Jul 2023

Semester’s Thesis 📄

- TITLE: “*Gluing Manifolds in the BV-BFV Formalism*”
- Introduction to differential geometry and supergeometry
- Review of a relevant paper on the field and of its results

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

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

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

LANGUAGES

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

DIGITAL SKILLS

Programming

Python, Julia, C++, L^AT_EX

Software/Tools

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

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