



Fabio Zoratti

Curriculum Vitae

Personal details

Name and Surname **Fabio Zoratti.**
Address **Via Francesco di Toppo 47, Udine, 33100, UD, Italy.**
Phone number **(+39) 340 8589967.**
Birth date **03/11/1996.**
Email **fabio.zoratti96@gmail.com, fabio.zoratti@sns.it.**
Nationality **Italian.**

Education

2020–now **PhD candidate**, *Scuola Normale Superiore*, Pisa.
2018–2020 **Master in Theoretical Physics**, *Università di Pisa*, Pisa, 110/110 cum Laude. Thesis title: “Machine-learning-like approaches to quantum state discrimination”.
2020 **CyberChallenge - training program in cybersecurity**, *Consorzio interuniversitario nazionale per l'informatica*.
2015–2020 **Second level master degree in Physics**, *Scuola Normale Superiore*, Pisa, 100/100 cum Laude.
2015–2018 **Bachelor in Physics**, *Università di Pisa*, Pisa, 110/110 cum Laude.
2010–2015 **Secondary School**, *Liceo Scientifico G. Marinelli*, Udine, 100/100.
2013–2014–2015 **Stage “Ad un passo dalle IPhO”**, *Olifis*, ICTP, Trieste.
2013–2014 **Stage on the Physics Olympiad**, *Olifis*, Stage held in Sigillo organized by the Olympic Group of AIF (Italian association for the teaching of Physics), Sigillo, PG, Italy.
2014 **Summer school on Modern Physics**, *Summer school organized by the University of Udine*, Introduction to the Special Relativity Theory and Quantum Mechanics.

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Experience

- 03/2021–now **OliCyber 2021, 2022 and 2023 organizer**, *CINI (Consorzio Interuniversitario Nazionale per l'Informatica)*.
I was part of the organizing committee for the first three editions of the Italian CyberSecurity Olympiads for secondary schools.
- 04/2017– **Part time collaboration**, *Scuola Normale Superiore*, Pisa.
12/2020 Administration and maintenance of the Computer Rooms of Timpano and Acconci colleges of Scuola Normale Superiore. All our system runs with free software (Debian GNU/Linux).
We use different distributed filesystems for our users and our computing cluster. Our services are now mainly on our Kubernetes cluster.
- 12/2019– **Part time collaboration**, *Scuola Normale Superiore*, Pisa.
12/2020 CyberSecurity, penetration testing.
- 07/2018– **Summer student programme**, *DESY-CMS*, Hamburg.
09/2018 Data analysis of CERN data. Study of jet energy corrections on sensitivity in the search for SUSY Higgs bosons.
- 05/2018– **Stage on the Physics Olympiad**, *AIF - Olifis*, ICTP - Trieste.
05/2019 Teacher in the Physics seminar for the preparation of the Italian team participating in the International Physics Olympiad. Part of the examination board who selected the members of the Italian team.

Miscellaneous

- June-August **Children's entertainer**, Malignani Campus *sports summer camp*, Udine.
2012-2013– Worked as Jack of all trades in local summer camp as an apprentice. Basically, I did all the dirty
2014 work that the others didn't want to do, like mowing the grass, working as a waiter in the canteen, carrying heavy things and cleaning the camp.

Awards

Projects

- 2019 My project "Stage di Fisica a Pisa" has been awarded the 2019 SIF (Società Italiana di Fisica, the Italian Physics Society) prize for the teaching of Physics. More info on this project can be found below.

Physics Olympiad

- 2012/13 Silver medal in the National Physics Olympiad and the special award "Bosia" for the best experimental elaborate.
- 2013/2014 Bronze medal in the National Physics Olympiad. Part of the Italian national team in the 45th International Physics Olympiad (IPhO) in Astana, Kazakhstan. Bronze medal in the international competition.
- 2014/2015 Silver medal in the National Physics Olympiad. Part of the Italian national team in the 46th International Physics Olympiad (IPhO) in Mumbai, India. Silver medal in the international competition, the best result of the Italian team.
- 2018/2019 Participation in the International Finals of the PLANCKS competition, held in Odense in May 2019.

Individual Mathematics Olympiad

- 2009/10 - Participation in the national competition of the Maths Games organized by Università
2010/11 Bocconi in Milan.
- 2011/12 - First place in the provincial phase of the Italian Maths Olympiad.
2013/14

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Team Mathematics Olympiad

- 2010/11, 2011/12 Participation in the regional finals of the Italian Team Maths Olympiad.
- 2012/13, 2013/14, 2014/15 Participation in the national finals of the Italian Team Maths Olympiad.

Chemistry Olympiad

- 2013/2014 First place in my category in the regional competition. Unfortunately, I didn't compete in the national competition because it was at the same time as the national Team Maths Olympiad. The next year I didn't participate in the regional competition because it was again simultaneously with a Maths competition.

Informatics Olympiad

- 2019/2020 Participation in the 2020 SWERC competition with the team of Scuola Normale Superiore.

CyberSecurity competitions

- 2020 CyberChallenge.it: first place in the national finals 2020 with the team of Università di Pisa. Full score in binary exploitation in the local selection.
- 2020–2023 Active member of the Fibonhack CTF team <https://fibonhack.it/>
- 2023 Participation to DEFCON CTF finals with the italian team mHackeroni
- 2023 First place in the Hack A Sat 4 competition with the italian team mhackeroni

Computer skills

- Basic Haskell, Elasticsearch
- Intermediate Bash, HTML, \LaTeX , OpenOffice, Linux, Debian, JavaScript ES6, Kubernetes, React, Julia
- Advanced C/C++, Python (NumPy, SciPy, matplotlib, uncertainties, Django Framework), git, Docker, binary exploitation

Projects

- Gara a Squadre di Fisica I am the main organizer of the new event “Gara a Squadre di Fisica”, a competition for high school students that involves thousands of people from all Italy. This project is part of the Italian Physics Olympiad. <https://gas.olifis.it/>
- Stage di Fisica a Pisa Advanced seminars on the Physics Olympiad held in SNS. I organized the first six editions of the project. More information can be found on the site of the event: <https://stagefisica.sns.it/>
- Foosball Part of the *Subotto technical team*, a small project of automation of a Foosball table. More information can be found on GitHub (github.com/subotto).
- Hacking Part of the FibonHack CTF team. <https://fibonhack.it/>

Languages

- Italian **Mothertongue**
- Friulano **Mothertongue**
- English **FCE passed at grade A in 2015** *Con conversationally fluent*
- German **A1 - No certification** *Basic words and phrases only*

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Interests

- Programming
- Videogames
- Basketball
- Linux
- Foosball

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