


FEDERICO CRISTIANO BRUZZONE






Curriculum Vitae

PhD Student in Computer Science at ADAPT Lab  (Università degli Studi di Milano), under the supervision of Prof. W. Cazzola. Programming Languages and Compilers enthusiast. Also, a Sound Engineer and Music Composer.

PERSONAL INFORMATION

Born in Magenta (MI), Italy on 7th of **March 2000**
Resident of Via F. Turati 75/F, Arluno (MI), 20004
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CONTACT INFORMATION

 Github: github.com/FedericoBruzzone
 Telegram: [@federicobruzzone](https://t.me/federicobruzzone)
 LinkedIn: [in/federico-bruzzone](https://in.linkedin.com/in/federico-bruzzone)
 Twitter: [@fedebruzzone7](https://twitter.com/fedebruzzone7)
 Reddit: u/FedericoBruzzone

Website: federicobruzzone.github.io

EDUCATION

ACADEMIC TITLES

- | | |
|----------------------------------|--|
| 2022-2024
(15/07/2024) | MSc in Computer Science
At Università degli Studi di Milano defending the thesis:
“ <i>Toward a Modular Approach for Type Systems and LSP Generation</i> ”
with final grade 110/110 cum laude .
Supervisor: Walter Cazzola , Università degli Studi di Milano
Co-supervisor: Luca Favalli , Università degli Studi di Milano |
| 2019-2022
(13/10/2022) | BSc in Musical Computer Science
At Università degli Studi di Milano defending the thesis:
“ <i>Intellectual Property and Digital Rights Management on Blockchain for the IEEE 1599 Standard</i> ”.
Supervisor: Andrea Visconti , Università degli Studi di Milano
Co-supervisor: Luca Andrea Ludovico , Università degli Studi di Milano |
| 2011-2019 | Conservatory of Music
From l’I.S.S.M. Novara Conservatory “ Guido Cantelli ” department of
Pianoforte and Music Composition . |
| 2014-2019 | High School Diploma in Computer Science and Telecommunications
From l’I.T.I.S. - Liceo Scientifico Scienze Applicate “ E. Alessandrini ” |

RESEARCH ACTIVITIES

2022-Present Scientific Research at ADAPT Lab

Since 2022, at the **ADAPT Lab** of the Università degli Studi di Milano, I have been working on the development of a modular approach for type systems and LSP generation for the research project **Neverlang** (originally conceived by **Walter Cazzola**). During this period, I studied the compiler construction, programming languages design and software and language product lines.

2021-2022 Scientific Research at LIM Lab

From 2021 to 2022, at the **LIM Lab** of the Università degli Studi di Milano, I worked on the development of solutions for the integration of blockchain technology in the music industry, focusing on intellectual property and digital rights management for the **IEEE 1599** standard.

SCIENTIFIC PUBLICATIONS

This paper is work in progress and will be submitted to the journal soon.

[1] F. C. Bruzzone, W. Cazzola, and L. Favalli, “Code Less to Code More: Streamlining LSP Development for Language Families,” *Journal of Systems and Software*, 2024.

Journal Ranked Q1 on Scimago - scimagojr.com/journal-of-systems-and-software

TEACHING ACTIVITIES

GRADUATE COURSES

2024-2025 Mathematical Logic

I assisted the Professor **Stefano Aguzzoli** in the exams of “Mathematical Logic” for the Bachelor’s Degree in Computer Science, Università degli Studi di Milano.

2023-2024 General Computer Science

I assisted the Professor **Alberto Davide Adolfo Momigliano** in the exams of “General Computer Science” for the Bachelor’s Degree in Communication and Society, Università degli Studi di Milano.

2023-2024 Computer Science 1

I assisted the Professor **Andrea Trentini** in the course “Computer Science 1” for the Bachelor’s Degree in Computer Science, Università degli Studi di Milano.

2023-2024 Programming in Python

I assisted the Professor **Mattia Monga** in the course “Programming in Python” for the Master’s Degree in Chemistry, Università degli Studi di Milano.

ADDITIONAL ACTIVITIES

2023-Present Private Tutoring

Since 2023, I have been tutoring university students in Computer Science and high school students in Mathematics, Physics, and Computer Science.

- Jan-Jun 2024 Computer Science Laboratories**
In collaboration with [ALaDDIn Lab](#) and the Professor **Violetta Lonati** of the [Università degli Studi di Milano](#), I have been responsible for the organization and management of the Computer Science Laboratories for the Bachelor's Degree in Computer Science.
- Jan-Jun 2024 Workshops for schools**
In collaboration with [ALaDDIn Lab](#) and the Professors **Violetta Lonati** and **Anna Morpurgo** of the [Università degli Studi di Milano](#), I helped manage workshops for high school students on the topics of Computer Science.
- Nov 2023 Bebras Challenge**
In collaboration with [ALaDDIn Lab](#) of the [Università degli Studi di Milano](#), I helped manage the **Bebras Challenge**, an international informatics competition for students.

WORK EXPERIENCE

- 2021-Present Sound Engineer and Producer**
Since 2021, I have been working as a sound engineer and producer, collaborating with various artists in the recording, mixing, and mastering of their music, realizing 100k+ streams on Spotify for some of them.
I am a [SIAE](#) member and [Believe](#) distributed my music in all the main digital stores.

GRANTS AND FELLOWSHIPS

- 2023-2024 Scholarship for the Master's Degree in Computer Science**
I was awarded a scholarship for the Master's Degree in Computer Science at the [Università degli Studi di Milano](#).
- 2020-2024 Exemption from university fees**
I was awarded an exemption from university fees for the Bachelor's Degree in Musical Computer Science at the [Università degli Studi di Milano](#).

TONGUES

- | | |
|----------------|---|
| Italian | Mother tongue |
| English | Level CEFR B2 (SLAM at Università degli Studi di Milano) |
| Spanish | Base (A1-A2) |

OTHER ACTIVITIES

ARTISTIC ACTIVITIES

- 2006-Present Pianist and Music Composer**
Since 2006, I have been studying piano and music composition.

I have composed music for various ensembles and soloists, and I have performed in various concerts and recitals.

I have also participated in various national and international competitions, winning several awards.

2019-Present Piano and Music Teacher

Since 2019, I have been teaching piano and music theory and composition to students of all ages and levels.

I have also prepared students for various music exams and competitions.

SPORT ACTIVITIES

2012-2019 Football

I practiced agonistic football for 7 years, playing in various regional championships.

I played for most of the time for the [Bustese Calcio](#) team.

2004-2012 Swimming

I practiced swimming for 8 years, participating in various regional competitions.

Milan, 09/08/2024