


# FEDERICO CRISTIANO BRUZZONE

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## Curriculum Vitae

Computer Science Student at [Università degli Studi di Milano](#) and Researcher at [ADAPT Lab](#)  working on *Modular Approach for Type Systems and LSP Generation*. 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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Phone: +39 391 7369214

### CONTACT INFORMATION

 Github: [github.com/FedericoBruzzone](https://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)

## EDUCATION

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### ACADEMIC TITLES

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| <b>2022-2024</b><br>(15-18/07/2024) | <b>MSc in Computer Science</b><br>At <a href="#">Università degli Studi di Milano</a> defending the thesis:<br>“ <i>Toward a Modular Approach for Type Systems and LSP Generation</i> ”.<br>Supervisor: <b>Walter Cazzola</b> , <a href="#">Università degli Studi di Milano</a><br>Co-supervisor: <b>Luca Favalli</b> , <a href="#">Università degli Studi di Milano</a>   |
| <b>2019-2022</b><br>(13/10/2022)    | <b>BSc in Musical Computer Science</b><br>At <a href="#">Università degli Studi di Milano</a> defending the thesis:<br>“ <i>Intellectual Property and Digital Rights Management on Blockchain for the IEEE 1599 Standard</i> ”.<br>Supervisor: <b>Andrea Visconti</b> , <a href="#">Università degli Studi di Milano</a><br>Co-supervisor: <b>Luca Andrea Ludovico</b> , <a href="#">Università degli Studi di Milano</a> |
| <b>2011-2019</b>                    | <b>Conservatory of Music</b><br>From <b>l’I.S.S.M. Novara Conservatory “Guido Cantelli”</b> department of <b>Pianoforte and Music Composition</b> .   |
| <b>2014-2019</b>                    | <b>High School Diploma in Computer Science and Telecommunications</b><br>From <b>l’I.T.I.S. - Liceo Scientifico Scienze Applicate “E. Alessandrini”</b>   |

## RESEARCH ACTIVITIES

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| <b>2022-Present</b> | <b>Scientific Research at <a href="#">ADAPT Lab</a></b><br>Since 2022, at the <a href="#">ADAPT Lab</a> of the <a href="#">Università degli Studi di Milano</a> , I have been working on the development of a modular approach for type systems and LSP generation for the research project <b>Neverlang</b> (originally conceived by <b>Walter Cazzola</b> ). During this period, I studied the compiler construction, programming languages design and software and language product lines. |
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**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.

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## 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](https://scimagojr.com/journal-of-systems-and-software)

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## 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 Economics, [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.

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## 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.

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## 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](#).

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## TONGUES

**Italian**

Mother tongue

**English**

Level CEFR B2 (SLAM at [Università degli Studi di Milano](#))

**Spanish**

Base (A1-A2)

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## 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, 20/06/2024