

# FEDERICO CRISTIANO BRUZZONE

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## 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](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)  
🔴 Reddit: [u/FedericoBruzzone](https://www.reddit.com/u/FedericoBruzzone)

Website: [federicobruzzone.github.io](https://federicobruzzone.github.io)

## PROFESSIONAL EXPERIENCE

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**2024-Present**     **PhD Student in Computer Science**  
Since 2024, I have been a PhD student in Computer Science at the **ADAPT Lab** of the **Università degli Studi di Milano**, under the supervision of **Walter Cazzola**. My research interests include, but are not limited to, programming languages, compilers, software maintenance, and software and language product lines.

## EDUCATION

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### ACADEMIC TITLES

<b>2022-2024</b> (15/07/2024)	<b>MSc in Computer Science</b> At <b>Università degli Studi di Milano</b> defending the thesis: “ <i>Toward a Modular Approach for Type Systems and LSP Generation</i> ” with final grade <b>110/110 cum laude</b> . Supervisor: <b>Walter Cazzola</b> , Università degli Studi di Milano Co-supervisor: <b>Luca Favalli</b> , Università degli Studi di Milano
<b>2019-2022</b> (13/10/2022)	<b>BSc in Musical Computer Science</b> At <b>Università degli Studi di Milano</b> defending the thesis: “ <i>Intellectual Property and Digital Rights Management on Blockchain for the IEEE 1599 Standard</i> ”. Supervisor: <b>Andrea Visconti</b> , Università degli Studi di Milano Co-supervisor: <b>Luca Andrea Ludovico</b> , 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

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- 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

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**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)

## TEACHING ACTIVITIES

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### 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

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**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

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**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

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**Italian**      Mother tongue

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

## OTHER ACTIVITIES

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### 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, 29/10/2024