

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](https://www.reddit.com/u/FedericoBruzzone)

Website: federicobruzzone.github.io

PROFESSIONAL EXPERIENCE

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

ACADEMIC TITLES

2022-2024 **MSc in Computer Science**
(15/07/2024) At **Università degli Studi di Milano** defending the thesis:
“*Toward a Modular Approach for Type Systems and LSP Generation*”
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 **BSc in Musical Computer Science**
(13/10/2022) At **Università degli Studi di Milano** defending the thesis:
“*Intellectual Property and Digital Rights Management on Blockchain for the IEEE 1599 Standard*”.
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](#))

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, 29/10/2024