


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
E-mail 1: federico.bruzzone@unimi.it
E-mail 2: federico.bruzzone.i@gmail.com
Phone: +39 391 7369214

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

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 and language product lines and software maintenance.

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

Apr-Jun 2025 **Committee Member at [SLE 2025](#)**

I served as a Committee Member (in Artifact Evaluation Committee) at the 18th ACM SIGPLAN International Conference on Software Language Engineering (SLE 2025). Check [here](#) for more details.

2-7 Sep 2024 **Student Volunteer at [ICFP 2024](#)**

I served as a Student Volunteer at the 29th ACM SIGPLAN International Conference on Functional Programming (ICFP 2024). Check [here](#) for more details.

REVIEWS

I have reviewed papers for the following conferences and journals:

2025 **[Journal of Systems and Software](#)**

Publisher: **Elsevier**

Issue: Trends in Systems and Software Product Line Engineering

Ranked Q1 on Scimago

INTERNSHIPS

2022-2024 **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, software and language product lines and software maintenance.

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

ARTICLES IN INTERNATIONAL JOURNALS WITH PEER REVIEW

These publications are in the review process and may not be available yet.

[1] F. Bruzzone and W. Cazzola, "RustyEx: Prioritizing Rust Configurations," in 41st IEEE/ACM International Conference on Automated Software Engineering (ASE). Association for Computing Machinery, 2025.

Conference Ranked A* on CORE

[2] F. Bruzzone, W. Cazzola, and L. Favalli, “Code Less to Code More: Streamlining Language Server Protocol and Type System Development for Language Families,” *Journal of Systems and Software*, 2024.
Journal Ranked Q1 on Scimago

TEACHING ACTIVITIES

THESIS SUPERVISION

- 10/04/2025** **Dario Pellegrino**
Scalable Multi-client Real-time Whisper
Bachelor in Computer Science, [Università degli Studi di Milano](#)
Score: **96**
- 09/04/2025** **Andrea Longoni**
GUIDE: Graphical User Interface Development Environment
Master in Computer Science, [Università degli Studi di Milano](#)
Score: **110 cum laude**
- 09/04/2025** **Leonardo Albani**
New Generalized Protocol For Software Product Line Extraction And Configuration
Master in Computer Science, [Università degli Studi di Milano](#)
Score: **110 cum laude**
- 09/04/2025** **Gabriele Esposito**
Fr3D: A Framework for DAP-compatible DSL-oriented Debugging
Master in Computer Science, [Università degli Studi di Milano](#)
Score: **110 cum laude**
- 24/02/2025** **Luca Favini**
RustyEx: Instrumenting rustc to Extract Feature Dependency Graphs
Bachelor in Computer Science, [Università degli Studi di Milano](#)
Score: **102**

GRADUATE COURSES

- 2025-2026** **Mathematical Logic (Art. 45)**
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](#).
- 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.
- Nov 2024 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.
- 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.

DISSEMINATION ACTIVITIES

- 2-6 Jun 2025 Participant at <Programming> 2025**
I participated in the 2025 edition of the [<Programming>](#) conference, which is a premier venue for programming language research. It was held in **Prague, Czech Republic**.
- 2024-Present Co-organizer of the MUSEMI**
Session Chair, Speaker and Co-organizer of [MUSEMI](#) (Meet Us for SEminars @uniMI). [MUSEMI](#) is a series of seminars organized by and for PhD students and research fellows to **disseminate their scientific research** and **foster collaboration among different research groups** within the Department of Computer Science. Additionally, [MUSEMI](#) encourages the participation of Master’s students interested in pursuing an academic career.

GRANTS AND FELLOWSHIPS

- 2024 56th Top Github Contributor in Italy out of 958**
I was awarded the 56th Top Github Contributor in Italy out of 958 according to this [classification](#).
- 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](#).

OTHER ACTIVITIES

ARTISTIC ACTIVITIES

- 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.
- 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 some of them.
- 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.

TONGUES

- Italian** Mother tongue

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

Spanish Base (A1-A2)

Milan, 08/06/2025