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**
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Contact Information

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✈ Telegram: @federicobruzzone
🔗 LinkedIn: in/federico-bruzzone
🐦 Twitter: @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 **(15/07/2024)**	**MSc in Computer Science**
	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 **(13/10/2022)**	**BSc in Musical Computer Science**
	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: Intrumenting `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, 19/09/2025