



# Luca Chiodini

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[github.com/lucach](https://github.com/lucach)

## Education

- 2020– **PhD Student (research area: Computer Science Education)**, *Università della Svizzera Italiana*, Lugano (Switzerland).  
LuCE research lab, under the supervision of professor Matthias Hauswirth.
- 2018–2020 **Double Master's degree in Computer Science**, *University of Milano-Bicocca and Università della Svizzera Italiana*, Lugano (Switzerland).  
Graduated with 110/110 *cum laude*, with a thesis on a qualitative study on mastery checks while learning to program (Computer Science Education).
- 2015–2018 **Bachelor's degree in Computer Science**, *University of Milano-Bicocca*, Milan (Italy).  
Graduated with 110/110 *cum laude*, with a thesis on working towards an automatic approach to identify potential binge drinkers on Twitter (Machine Learning & NLP).
- 2010–2015 **Technical high school**, *ITIS Paleocapa*, Bergamo (Italy).  
Final mark: 100/100, with a thesis on an automated spelling correction system.

## Experience

- 2014–current **OII (Italian Olympiad in Informatics) & Open Source contributions.**
- Member of the scientific committee of IOT (International Informatics Olympiad in Teams), editions 2017-18, 2018-19 and 2019-20, with responsibility for ideating tasks and managing the technical stack hosted on Google Cloud Platform.
  - Extensive work to train high school students for regional and national finals, with a strong focus on algorithms and data structures to solve efficiently a given problem.
  - Contributed to the development of the Italian training platform and CMS, the software used to run Olympiad-style competitions. Both are open source software available on GitHub.
  - Main organizer of ABC, an Olympiad-style online contest held each year in May.
- 2018–current **CyberChallenge**, *Polytechnic University of Milan*, Milan (Italy).
- Participant in the first Italian training program in cybersecurity for students. I placed second in the local final Capture The Flag competition and participated within a team in the national final, an Attack-Defense CTF held in Rome, where we ranked second.
  - Currently involved in public and private bug bounty programs on HackerOne.
- 2015 **C&D Elettronica**, *Bergamo (Italy)*.  
Low-level programming of Raspberry Pi C++ libraries targeting custom hardware.

## Languages

Italian Native  
English Advanced

## Technical skills

OS Advanced Linux and Windows  
programming Advanced knowledge of C, C++ (including STL), Python and Java  
security Applied cryptography, network protocols, web and browser security  
database SQL (MySQL, PostgreSQL, SQLite) and NoSQL (Redis, Memcached)  
web HTML5 and CSS3, JavaScript