




# MICHELE CHIARI

## *Curriculum Vitae*

 Politecnico di Milano, Edificio 22 – Via Golgi 42, 20133 Milano, Italy  
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### EDUCATION (DEGREE GRANTING)

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NOV 2018 – PRESENT **Information Technology**  
PH.D.  
Politecnico di Milano – Milano, Italy

2016 – 2018 **Computer Science and Engineering**  
MASTER OF SCIENCE (LAUREA MAGISTRALE)  
110/110 CUM LAUDE  
Politecnico di Milano – Milano, Italy

2013 – 2016 **Computer Science**  
BACHELOR OF SCIENCE (LAUREA TRIENNALE)  
110/110 CUM LAUDE  
University of Parma – Parma, Italy

### EDUCATION (OTHER) AND ACHIEVEMENTS

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22/09/2019 – 27/09/2019 **Heidelberg Laureate Forum**  
7TH EDITION  
Hosted by the Ruprecht Karl University of Heidelberg, Baden-Württemberg, Germany

2019 **Award for the Best Italian Master Thesis in Theoretical Computer Science**  
ITALIAN CHAPTER OF THE EATCS  
Title: *Temporal Logic and Model Checking for Operator Precedence Words*

01/2016 – 05/2016 **Study Abroad Program (undergraduate, with scholarship)**  
BOSTON COLLEGE – BOSTON, MA, USA  
Computer Science, Mathematics and Statistics courses

### TEACHING EXPERIENCE

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10/2020 – 12/2020 **Lectures and Exercise Classes (24 hours, online)**  
CEFRIEL S.CON.S.R.L., MILANO, ITALY  
Fastweb Digital Academy 2020 – Basic and Advanced Python Coding Courses

09/2020 – 12/2020 **Teaching Assistant (26 hours, partially online)**  
POLITECNICO DI MILANO, ITALY  
Classroom exercise for the course “Principles of Programming Languages”  
(Scheme, Haskell and Erlang Programming)

09/2020 – 12/2020 **Teaching Assistant (28 hours, partially online)**  
POLITECNICO DI MILANO, ITALY  
Classroom exercise for the course “Fondamenti di Informatica”  
(C Programming)

12/2019 **Lectures and Exercise Classes (8 hours)**  
CEFRIEL S.CON.S.R.L., MILANO, ITALY  
Fastweb Academy 2019 – Advanced Python Coding Course

- 09/2019 – 12/2019 **Teaching Assistant (20 hours)**  
POLITECNICO DI MILANO, ITALY  
Classroom exercise for the course “Principles of Programming Languages”  
(Scheme, Haskell and Erlang Programming)
- 09/2019 – 12/2019 **Teaching Assistant (20 hours)**  
POLITECNICO DI MILANO, ITALY  
Classroom exercise for the course “Fondamenti di Informatica”  
(C Programming)
- 10/2019 **Lectures and Exercise Classes (8 hours)**  
CEFRIEL S.CON.S.R.L., MILANO, ITALY  
Fastweb Academy 2019 – Python Coding Course
- 03/2019 – 09/2019 **Tutoring Sessions (30 hours)**  
POLITECNICO DI MILANO, ITALY  
Classroom exercise and tutoring for the course “Algoritmi e Principi dell’Informatica”  
(Formal Languages, Automata and Computability Theory;  
Algorithms and Data Structures)
- 05/2019 **Tutoring Activity (10 hours)**  
POLITECNICO DI MILANO, ITALY  
Development and preparation of the final project (Prova Finale) for the course “Algoritmi e Principi dell’Informatica”.
- 01/2019 **Lectures and Exercise Classes (8 hours)**  
CEFRIEL S.CON.S.R.L., MILANO, ITALY  
Fastweb Academy 2019 – Android Coding Course
- 02/2018 – 06/2018 **Tutoring Sessions (24 hours)**  
UNIVERSITY OF PARMA, ITALY  
Classroom exercise for the course “Fondamenti dell’Informatica”  
(Principles of Programming Languages, Automata and Computability Theory)

## LANGUAGE SKILLS

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ITALIAN Native speaker

ENGLISH Reading: excellent; Writing: excellent; Speaking: good. TOEFL iBT score: 110 (Oct 2014).

## PUBLICATIONS

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- [1] R. Bagnara, M. Chiari, R. Gori, and A. Bagnara, “A practical approach to verification of floating-point C/C++ programs with math.h/cmath functions,” *ACM Trans. Softw. Eng. Methodol.*, vol. 30, Dec. 2021.
- [2] M. Chiari, D. Mandrioli, and M. Pradella, “Operator precedence temporal logic and model checking,” *Theor. Comput. Sci.*, vol. 848, pp. 47–81, 2020.
- [3] M. Chiari, D. Bergamaschi, D. Mandrioli, and M. Pradella, “Linear temporal logics for structured context-free languages,” in *Proceedings of the 21st Italian Conference on Theoretical Computer Science, Ischia, Italy, September 14-16, 2020*, vol. 2756 of *CEUR Workshop Proceedings*, pp. 115–121, CEUR-WS.org, 2020.
- [4] S. Cherubin, D. Cattaneo, M. Chiari, and G. Agosta, “Dynamic Precision Autotuning with TAFFO,” *ACM Trans. Archit. Code Optim.*, vol. 17, no. 2, pp. 10:1–10:26, 2020.
- [5] S. Cherubin, D. Cattaneo, M. Chiari, A. Di Bello, and G. Agosta, “TAFFO: Tuning Assistant for Floating to Fixed Point Optimization,” *Embedded Systems Letters*, vol. 12, no. 1, pp. 5–8, 2020.
- [6] N. Fossati, D. Cattaneo, M. Chiari, S. Cherubin, and G. Agosta, “Automated precision tuning in activity classification systems: a case study,” in *PARMA-DITAM@HiPEAC 2020*, pp. 5:1–5:6, ACM, 2020.
- [7] M. Chiari, D. Mandrioli, and M. Pradella, “Word- and Tree-based Temporal Logics for Operator Precedence Languages,” in *Proceedings of the 20th Italian Conference on Theoretical Computer Science, ICTCS 2019, Como, Italy, September 9-11, 2019*, vol. 2504 of *CEUR Workshop Proceedings*, pp. 222–228, CEUR-WS.org, 2019.

- [8] D. Cattaneo, A. Di Bello, M. Chiari, S. Cherubin, and G. Agosta, “Fixed point exploitation via compiler analyses and transformations: Poster,” in *Proceedings of the 16th ACM International Conference on Computing Frontiers*, CF ’19, (New York, NY, USA), pp. 292–294, ACM, 2019.
- [9] M. Chiari, D. Mandrioli, and M. Pradella, “Temporal logic and model checking for operator precedence languages,” in *Proceedings Ninth International Symposium on Games, Automata, Logics, and Formal Verification, Saarbrücken, Germany, 26-28th September 2018*, vol. 277 of *EPTCS*, pp. 161–175, Open Publishing Association, 2018.