



## Giacomo Borin

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### EDUCATION AND TRAINING

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#### **Master of Science in Mathematics, curriculum Cryptography and Coding Theory**

**Università di Trento** [ 09/2021 – Current ]

**Address:** Via Sommarive 14, 38123 Povo TN (Italy)

**Level in EQF:** EQF level 7

**Type of credits:** ECTS – **Number of credits:** 120

I have attended lectures regarding mathematical subjects related to modern cryptography. For instance Finite Fields, Coding Theory, Computational Algebra, Algebraic Geometry (in particular Algebraic Curves), Number Theory and Stochastic processes. I also have studied implementations of cryptographic primitives. I have also followed courses about real world applications of cryptography, in which we discussed issues in computer and network security, protocols, privacy, access control, public key infrastructures, protocol verifications, data hiding and other topics.

#### **Bachelor's degree in Mathematics**

**Università di Trento** [ 09/2018 – 07/2021 ]

**Address:** Via Sommarive, 14, 38123 Povo TN (Italy)

**Website:** <https://www.maths.unitn.it>

**Field(s) of study:** Natural sciences, mathematics and statistics: *Mathematics*

**Final grade:** 110 cum laude/110 – **Level in EQF:** EQF level 6

**Type of credits:** ECTS – **Number of credits:** 180

**Thesis:** The Containment Problem, a general introduction and the particular case for Steiner systems

I've followed lectures about the principal topics of mathematics: analysis, topology, numerical analysis, probability and statistics, number theory, geometry, **algebra** (linear and abstract). In particular, I've focused on the last one, studying commutative algebra, Galois theory, Group theory, Field Theory, Algebraic number theory and Algebraic geometry. Also, I've studied physics and programming (Java, Matlab, **Sagemath**).

#### **De Cifris Trends in modern Cryptography**

**De Cifris** [ 05/2022 ]

**Website:** <https://www.decifris.it/trends>

Series of lectures on the hot research topics for the cryptographic Italian community (for example post quantum cryptography and multiparty computation), both from academics and enterprises point of view. The lecturers came from 20 different universities. At the end of the course there were an exam.

#### **Maturità scientifica opzione scienze applicate (Italian high school diploma with scientific orientation)**

**IIS Leonardo da Vinci Cerea** [ 2012 – 2018 ]

**Address:** Via Gandhi, 2, 37053 Cerea (VR) (Italy)

**Website:** <https://www.davincicerea.edu.it>

**Final grade:** 100/100 – **Level in EQF:** EQF level 4

## HONOURS AND AWARDS

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### Scholarship Advisory board "De Cifris"

'Telsy' and 'De Cifris' [ 10/2021 ]

*De Componendis Cifris* is an association to promote Cryptography in Italy. They deliver scholarship for talented Cryptography students. The amount of the scholarship is 9.216,00 €, divided in two years. They require to maintain excellence standards and be part of the activities of Cryptolab.

### Pupil at 'Collegio di Merito Bernardo Clesio'

'Collegio di Merito Bernardo Clesio' and 'Università di Trento' [ 09/2021 ]

The aforementioned college is an institution of the University of Trento for talented graduate and undergraduate students. To remain in the institution they request to maintain Excellence standards and be part of the College activities.

Link: <https://www.unitn.it/collegiobernardoclesio/en/41/overview>

### Honours Scholarship for Bachelor's degree in Mathematics

INdAM [ 19/10/2018 ]

INdAM is National Institute for Advanced Mathematics in Italy. They deliver scholarship for talented Mathematics students. The amount of the scholarship is 12'000 €, divided in three years. They require passing all the exams with at least 24/30 and to have a weighted mean of at least 27/30.

### Scholarship for international exchange with AFS Italy

"Associazione Lavoratori INTESA SANPAOLO" and "Fondazione Intercultura" [ 31/01/2017 ]

The scholarship funded a summer program in Japan (Tokyo and Fukuoka) and fully covered the expenses of the travel.

### Scholarship 'Rotary'

"Rotary club Cerea" and "Liceo Da Vinci Cerea"

High school scholarship assigned to the best student of the course. Recived in 2015 and 2017.

## VOLUNTEERING

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### Service as Scoutmaster in AGESCI

[ Casaleone (VR), 16/10/2020 – Current ]

AGESCI is one of the Italian association for Scouting, officially recognised by WOSM.

I became a boy scout in 2008 and starting from 2016 I've done several experience of volunteering in the association and outside (with kids and hospitalised patients).

In October 2020 I've started the experience as scoutmaster for the wolf cubs (8-11 years old children).

### Service for Settore Protezione Civile AGESCI

[ 04/2021 – 02/2022 ]

AGESCI collaborates with *Protezione Civile Nazionale* (National association for Civil Protection), in particular in 2021 the Veneto region activated us to support the population during the national vaccination campaign.

## LANGUAGE SKILLS

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Mother tongue(s): **Italian**

Other language(s):

**English**

**LISTENING B2 READING B2 WRITING B2**

**SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2**

**German**

**LISTENING A1 READING A1 WRITING A1**

**SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1**

## WORK EXPERIENCE

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### Graduate teaching assistant

**Università di Trento** [ 08/2021 – Current ]

City: Trento

2021 : GTA for Linear Algebra course for undergraduate students in Mathematics and Physics.

2022 : GTA for Linear Algebra and Calculus courses for undergraduate students in Mathematics.

### Stage in an accounting firm

**Studio Gaio Rag. Maria** [ 2016 ]

City: Casaleone (VR)

77 hours

I stayed in different team responsible for tax filing, accounting and invoicing.

Gained experience for countability and teamwork skills.

### Stage in Municipal Library

**Comune di Casaleone** [ 2015 ]

City: Casaleone (VR)

102 hours

I was responsible for digital categorisation and sorting of books.

Gained discipline and time managing skills.

## HOBBIES AND INTERESTS

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### Student government

2016-2017

Elected as representative of the students for the Institute Leonardo Da Vinci. Organised several seminars and public events. Represented the students in the institute assembly.

2013-2014, 2017-2018

Elected as representative of the students for my classroom. Organised several open discussions and participated with teachers in end-term meetings.

### Students newspaper

2013-2017

Graphic designer for the students newspaper "Il Giocondo".

### Sports

Soccer and Tennis regularly until 2018, now only sporadically.

### Reading

I like to alternate between non-fiction book (usually science or self-improvement) and fictional ones.

## PERSONAL SKILLS

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### Digital skills

I have experience with different programming languages, studied both for academic and personal reasons.

I mainly use with confidence Python, Sagemath (a CAS based on Python) and MAGMA, usually for cryptography and coding theory.

I have studied (both in university and high school) object oriented programming (mainly in Java). In academy I have experienced also low level programming in C to implement symmetric ciphers.

Other languages used in the past are R, Java and MatLab.

I also have familiarity with LaTeX, vi (neovim) and the Unix terminal.

### **Organisation skills**

I am able to coordinate complex projects, both from logistic and financial point of view, also with other people. Skill gained thanks to the role of representative of the students, at the activities organised in AGESCI and academic projects.

### **Soft skills**

I have good analytical skills, communication, team work and leadership. Gained thanks to the role of representative of the students and director of the student newspaper, at the activities organised in AGESCI and academic projects and the role as GTA.

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*I authorize the processing of my personal data pursuant to Legislative Decree 101/2018 and art. 13 GDPR (EU Regulation 2016/679) for the purposes of personnel research and selection.*

05/04/2023

