



I am truly enthusiastic about the professional and life experience that doing the Ph.D gave to me. What mainly has impressed me has been the opportunity of working together with professionals of different countries because I think that this is a powerful way of having the opportunity of broadening professionally and personally ones horizons.

PERSONAL PRESENTATION

From all my working experiences, I realized that I am a person who cares to get involved and learn always more. In particular, I like working in groups even if I can give the best of myself also working alone. The experience of the last months, when I had to combine both the commitment to my teaching activity and the end of my Ph.D, led me to conclude that I have good skills in work organization and work planning. Furthermore, I think that I am quite able to deal with different issues at the same time. Studying mathematics I developed an attitude to logical reasoning and problem solving. Furthermore, tutoring private students and teaching at High school, I realised that I am a patient person and I strongly like to devote time to the activity in which I am committed to so that the result can be the best possible.

EDUCATION

University of Siena Ph.D. in Discrete Mathematics and Computing Science	City, Siena-(Glasgow-online) 2018–2022
– Advisor: Prof. Cristiano Bocci (University of Siena)	
– Co-Advisor: Prof. Kitty Meeks (University of Glasgow)	
– Thesis: <i>Algorithms for identifying clusters in temporal graphs and realising distance matrices by unicyclic graphs.</i>	
University of Siena M.S. in Mathematics, Grade: 110/100 cum laude	City, Siena 2014–2016
University of Siena B.S. in Mathematics, GPA: 110/110 cum laude	City, Siena 2010–2013

EXPERIENCE

- **Internship** at Blue Factor S.P.A. (factoring) employee in “Operation and Control” Office Castiglione della Pescaia (GR); March 2017 –September 2017

During this internship I worked for a company of factoring which was specialised in credit collection. This experience turned out to be really useful for testing my logic organisation abilities and problem solving. During my working day I used to check completion status of recorded files relevant to specific customers or to perform productivity analyses of datas.

Summary of the company tutor referring to acquired skills and any critical issues found: The apprentice showed an excellent ability to work for goals, manage time and organize work. She has fully acquired the competences foreseen in the training project.

Skills: Microsoft Office, Microsoft Excel

- **University of Glasgow/UK: School of Computing Science** Autumn 2018 –Winter 2022
Online research collaboration
 - Temporal graphs, temporal cluster editing, graph clustering, parameterised complexity**Skills:** Python, LaTeX

TEACHING EXPERIENCE

This experience let me test my communication skills, perseverance and dedication to look for different approaches depending on the special peculiarities of different personalities.

- **Occasional substitute** at High School January 2023-now
Course Name (Mathematics)
- **Professor** at High School September 2022 –December 2022
Course Name (Mathematics)
- **Professor** at High School January 2022 –August 2022
Course Name (Mathematics and Physics)
- **Professor** at High School November 2017
Course Name (Mathematics)

LANGUAGES

- **Language: Italian**, mother tongue
- **Language: English**, B2
- **EXAM: First Certificate in English** June 2018

SKILLS

- **Good knowledge of Office packages**
- **Programming codes: good basis of Python, basis of Java and SQL**
- **Basic notions of Machine Learning algorithms**

PUBLICATIONS

- [1] C. Bocci, **C. Capresi**, K. Meeks, and J. Sylvester, “A new temporal interpretation of cluster editing”, in *International Workshop on Combinatorial Algorithms*, Springer, 2022, pp. 214–227.
- [2] C. Bocci and **C. Capresi**, “Realization of distance matrices by unicyclic graphs”, *Rendiconti Sem. Mat. Univ. Pol. Torino*, vol. 79, pp. 55–76, 2021.
- [3] C. Bocci, **C. Capresi**, and D. Carrucoli, “Gorenstein points in \mathbb{P}^3 via hadamard product of projective varieties”, *Collectanea Mathematica*, 2021.

CONFERENCES AND SEMINARS

IWOCA 2022

33rd International Workshop on Combinatorial Algorithms

– Title of contributed talk: *A new temporal interpretation of Cluster Editing*

City, Trier

07 June 2022 –09 June 2022

ICALP 2021/UK

Workshop on “Temporal Graphs”

– Online attendance

(online)

12 July 2021

28th British Combinatorial Conference/UK

BCC 2021

– Online attendance

City, Glasgow (online)

05 July 2021 –09 July 2021

Dagstuhl Seminar/Germany

Title: “Temporal Graphs: Structure, Algorithms, Applications”

– Online attendance

(online)

25 April 2021 –30 April 2021

27th British Combinatorial Conference/UK

BCC 2019

City, Birmingham

29 July 2019 –02 August 2019

SCHOLARSHIPS AND AWARDS

- Academic Ph.D Scholarship by the University of Siena 2018–2021
- June 20, 2017, I received, by the Department of Mathematics of University of Siena, a certificate of merit as the best math student graduated in the academic year 2015/2016.

EXTRACURRICULAR ACTIVITIES

- Attendance to Data Analyst (Data Analytics) course 89 hours and final certificate Online, ApexLearning –now
- Attendance to Summer School in Mathematics Courses: *Commutative Algebra and Geometry, Introduction to Probability and Statistics.* City, Perugia –August 2018
- Attendance to Kaplan English School English Course of level B2 City, Edinburgh –Spring 2018
- Attendance to online course of “Machine Learning” Coursera
- Achievement of academic 24 CFU in the field of educational psychology University of Siena

DRIVING LICENCE

Italian driving licence: B, A2

HOBBIES AND INTERESTS

In my free time I like to do sport because I think that it is a funny way to relax both mind and body. In particular I like to work out in the gym and I truly love dancing which is a passion that I share with many of my friends. During the last years I also discovered the aerial hoop, an activity which I really enjoy because it encourages you continuously to challenge yourself. When it happens that I can take a few hours or days off

from work I also like to visit new places and travelling, which I think is a very fascinating way to broaden someone's horizons. I am open to new experiences and I would like to work in an environment that let me grow both personally and professionally.