

Azzurra Ciliberti

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Education

La Sapienza Università di Roma Ph.D. in Mathematics – Thesis supervisor: Prof. Giovanni Cerulli Irelli	Rome, Italy November 2021–Current
Alma Mater Studiorum Università di Bologna Master’s Degree in Mathematics, Grade: 110/110 cum laude – Thesis title: “Chromatic symmetric homology” – Thesis supervisor: Prof. Luca Moci	Bologna, Italy September 2019–June 2021
Alma Mater Studiorum Università di Bologna Bachelor’s Degree in Mathematics, Grade: 109/110 – Thesis title: “Gruppi di Galois di ordine dodici” – Thesis supervisor: Prof.ssa Mirella Manaresi	Bologna, Italy September 2017–September 2019
Alma Mater Studiorum Università di Bologna Bachelor’s Degree in Computer Engineering, Grade: 110/110 cum laude – Thesis title: “Progetto e implementazione del protocollo HSLTP” – Thesis supervisor: Prof. Carlo Caini	Bologna, Italy September 2014–July 2017
Liceo Classico Aldo Moro Classical High School Diploma, Grade: 100/100	Manfredonia, Italy September 2009–June 2014

Experience

Target Reply Consultant – Main activities: Data analysis using ETL software (SQL, SAS)	Milan, Italy March 2021–June 2021
Alma Mater Studiorum Università di Bologna Tutor for blended teaching support	Bologna, Italy September 2020–December 2020
Alma Mater Studiorum Università di Bologna Curricular internship – Description of the project: Changes to the LTP code contained in ION, i.e. the free software implementation of the DTN architecture, in order to create a new convergence layer	Bologna, Italy February 2017–June 2017

Publications and Preprints

- [1] A. Ciliberti and L. Moci, “The chromatic symmetric homology of every non-planar graph contains \mathbb{Z}_2 -torsion in bidegree (1,0)”, in ArXiv: 2103.01543v3, 2021.
- [2] N. Alessi, C. Caini, A. Ciliberti, and T. de Cola, “Hsltp—an ltp variant for high-speed links and memory constrained nodes”, IEEE Transactions on Aerospace and Electronic Systems, vol. 56, no. 4, pp. 2922–2933, 2020.

Teaching

- Teaching Assistant for “Geometry 3” course (Module 1), University of Bologna, 100h. 2020–2021
- “Geometry” for Sustainable Building Engineering, La Sapienza (Campus of Rieti), 60h. 2021–2022

Seminars

- “Chromatic symmetric homology” at MATH Talks, La Sapienza (Rome) 2022

Computer skills

- Software development: C, C#, Java;
- Mathematical software: Sage, Singular, MATLAB, CoCoA;
- Data analysis: SAS Data Management, SQL, Excel;
- Document preparation, especially for scientific works: LaTeX, Word.

Languages

- Language: Italian mother tongue
- Language: English Upper Intermediate (B2)
 - IELTS Academic: Grade: 6.5 (July 2019)

Scholarships and Awards

- Study award in favor of deserving students from the University of Bologna (1500€) 2021