

Lorenzo Perrone

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Summary

I'm a second year mathematics Ph.D. student at University of Bologna. My advisor is Riccardo Biagioli. I'm interested in problems related to Coxeter groups and algebraic combinatorics.

Academic Employment

Ph.D. student in Mathematics

Nov 2024 – Now

University of Bologna

- Advised by Riccardo Biagioli.

Education

Master's Degree in Mathematics

Sept 2020 – Mar 2024

University of Bologna

- Thesis: *Dyer's Conjecture on the Join in the Weak Order of a Coxeter Group*, Advisor prof. Riccardo Biagioli. Final grade: 110/110 cum laude.
- Erasmus+ student exchange at Universiteit van Amsterdam (UvA). Jan 2022 - Jul 2022

Bachelor's Degree in Mathematics

Sept 2017 – Oct 2020

University of Bologna

- Thesis: *Il polinomio di Tutte*, Advisor prof. Marta Morigi. Final grade: 109/110.

Teaching experience

Teaching Assistant

2025 – 2026

University of Bologna

- Course: *Arithmetic and Groups*. Degree programme: Mathematics;
- Course: *Linear Algebra and Geometry*. Degree programme: Astronomy.

Teaching Assistant

2021 – 2022

University of Bologna

- Course: *Geometry and Algebra T*. Degree programme: Mechanical Engineering;
- Course: *Geometry and Algebra T (Module 2)*. Degree programme: Chemical and Biochemical Engineering.

Talks and posters

- Talk at INcontro TRIangolare di Combinatoria Algebrica e TOpologica (INTRICATO 2025) Bo-Pi-Rm, Bologna, Italy: *On a property of inversion sets in Coxeter groups*. Nov 2025
- Poster at 37th International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2025), Sapporo, Japan: *On a Conjecture of Dyer on the Join in the Weak Order of a Coxeter group*; Jul 2025
- Talk at INcontro TRIangolare di Combinatoria Algebrica e TOpologica (INTRICATO 2024) Bo-Pi-Rm, Bologna, Italy: *Dyer's Conjecture on the Join in the Weak Order of a Coxeter Group*. Nov 2024

Languages

- Italian: mother tongue.
- English: advanced (IELTS: 7.0, Oct 2020).

Publications

On a Conjecture of Dyer on the Join in the Weak Order of a Coxeter group, *Séminaire Lotharingien de Combinatoire*, vol. 93B Art. 13

2025

Riccardo Biagioli, **Lorenzo Perrone**