






Giacomo Hermes Ferraro

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Education





- Nov. 2021 – Dec. 2024 (expected)  **Ph.D.** in Mathematics,
Università La Sapienza, Roma.
Thesis: *Pellarin-type identities in arbitrary Drinfeld modules*.
Advisor: *Prof. Federico Pellarin*.
- Sep. 2016 – Sep. 2021  **Diploma di Licenza** in Mathematics (M.Sc. equivalent),
Scuola Normale Superiore, Pisa. Final grade: 110/110 e lode.
- May 2019 – Sep. 2021  **Laurea Magistrale** in Mathematics (M.Sc. equivalent),
Università degli Studi di Pisa.
Thesis: *Hochster's Direct Summand Theorem*.
Advisor: *Prof. Tamás Szamuely*.
Final grade: 110/110 e lode.
- Sep. 2016 – May 2019  **Laurea Triennale** (B.Sc. equivalent) in Mathematics,
Università degli Studi di Pisa.
Thesis: *Il principio locale-globale e il teorema di Hasse Minkowski*.
Advisor: *Prof. Davide Lombardo*.
Final grade: 110/110 e lode.
- Sep. 2011 – Jul. 2016  **Diploma di Maturità Scientifica** (High School Diploma),
Liceo Scientifico P.S. Mancini.
Final grade: 100/100 e lode.

Publications


Preprints

- 2023  G.H.Ferraro, *A duality result about special functions in Drinfeld modules of arbitrary rank*,
<https://arxiv.org/abs/2303.11468>.
- 2022  G.H.Ferraro, *A class of functional identities associated to curves over finite fields*,
<https://arxiv.org/abs/2212.07823>.





Presentations

- Jul. 2024  *A duality result about special functions in Drinfeld modules of arbitrary rank*, Second UMI-AMS Joint Meeting, Palermo.
- Nov. 2023  *A rationality result regarding Pellarin L -functions and special functions*, TAMU Number Theory Seminar, Texas A&M University.
- Jun. 2023  *The quest for a functional equation for L -functions in Drinfeld theory*, YAMS Seminar, Università La Sapienza.
- May 2023  *The quest for a functional equation for L -functions in Drinfeld theory*, Baby Geometri Seminar, Università degli Studi di Pisa.

Congresses and conferences attended




- 17–19 Apr. 2024  *The 8th mini symposium of the Roman Number Theory Association*, Rome.

Congresses and conferences attended (continued)



- 18–22 Sep. 2023  *Modular curves and Galois representations*, Zagreb.
- 4–6 May 2023  *The 7th mini symposium of the Roman Number Theory Association*, Rome.
- 20–24 Feb. 2023  *Geometry, Algebra and Combinatorics of Moduli Spaces and Configurations V*, Dobbiaco.
- 18–22 Jul. 2022  *AMS-EMS-SMF International Meeting*, Grenoble. I attended the sessions on Drinfeld modules.

Work Experience

University

- 2022  Tutor for students of the course *Elementi di Analisi Reale*. **Università degli Studi di Roma, Mathematics Department.**
- 2021  Assistant for the correction and evaluation of written exams of the course *Analisi Matematica A*. **Università degli Studi di Pisa, Physics Department.**
- 2020  Tutor for students of the course *Aritmetica*. **Università degli Studi di Pisa, Mathematics Department.**

Other teaching activity





- 2020 – Ongoing  Pro bono private tutor for high school students in my hometown who qualified for the Italian Mathematical Olympiad.
- 2019  Teacher of a mini course aimed at the preparation of students to the local stage of the Italian Mathematical Olympiad. **Unione Matematica Italiana.**

Awards and scholarships




Scholarships

- 2016–2021  Full paid scholarship. **Scuola Normale Superiore.**

Recreational Mathematics and Physics Contests

- 2017, 2022  *Championnat de Jeux Mathématiques*: first place in the national competition. Awarded by Università Bocconi.
- 2016  *Balkan Mathematical Olympiad*: Silver Medal.
- 2014–2016  *Olimpiadi Italiane della Matematica*: Gold Medal (2014), Silver Medal (2015), Gold Medal (2016).
-  *Campionati Italiani di Fisica*: qualified (2014), Bronze Medal (2015), Silver Medal (2016).

Skills

- Languages  Native speaker of Italian, fluent in English (C1), basic knowledge of French (B1) and German (A2).
- Coding  Python, SageMath, C++, SQL, \LaTeX , ...
- Misc.  Academic research, teaching.

References

Available on Request