

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, L^AT_EX, ...
- Misc. ■ Academic research, teaching.

References

Available on Request