


Giacomo Hermes Ferraro






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Employment


- Starting Nov. 2025  **Texas A&M University.**
Visiting Assistant Professor
- Jan. 2025 – present  **Ruprecht-Karls-Universität Heidelberg.**
Post-Doctoral Researcher.
Mentor: Gebhard Böckle.

Education


- 2021 – 2024  **Ph.D.** in Mathematics,
Università La Sapienza, Roma.
Thesis: *Functional identities of certain zeta-like functions associated to Drinfeld A -modules.*
Advisor: Federico Pellarin.
- 2016 – 2021  **Diploma di Licenza** in Mathematics (M.Sc. equivalent),
Scuola Normale Superiore, Pisa.
Final grade: 100/100 e lode.
- 2019 – 2021  **Laurea Magistrale** in Mathematics (M.Sc. equivalent),
Università di Pisa.
Thesis: *The Direct Summand Theorem.*
Advisor: Tamás Szamuely.
Final grade: 110/110 e lode.
- 2016 – 2019  **Laurea Triennale** in Mathematics (B.Sc. equivalent),
Università di Pisa.
Thesis: *Il principio locale-globale e il teorema di Hasse Minkowski.*
Advisor: Davide Lombardo.
Final grade: 110/110 e lode.
- 2011 – 2016  **Diploma di Maturità Scientifica** (High School Diploma),
Liceo Scientifico P.S. Mancini, Avellino.
Final grade: 100/100 e lode.

Publications and preprints


Published Articles

- 1 G. H. Ferraro, “A duality result about special functions for Drinfeld modules of arbitrary rank,” *Res Math Sci*, vol. 12, 2 2025.  DOI: 10.1007/s40687-025-00506-w.

Submitted Articles

- 2 G. H. Ferraro, “A class of functional identities associated to curves over finite fields,” 2022.  DOI: 10.48550/arxiv.2212.07823.







Talks

- Nov. 2024  *A generalization of Pellarin’s identity to Drinfeld modules of arbitrary rank.*
NCTS Number Theory Seminar (online),
National Center for Theoretical Sciences, Taipei, Taiwan.

Talks (continued)




- Aug. 2024  *Anderson eigenvectors and dual Anderson eigenvectors.*
Online learning seminar on the topic of 'special functions',
Penn State University, State College, Pennsylvania, USA.
- Jul. 2024  *A duality result about special functions in Drinfeld modules of arbitrary rank.*
Second UMI-AMS International Joint Meeting,
Università degli Studi di Palermo, Palermo, Italy
- Nov. 2023  *A rationality result regarding Pellarin L -functions and special functions.*
TAMU Number Theory Seminar,
Texas A&M University, College Station, Texas, USA.
- Jun. 2023  *The quest for a functional equation for L -functions in Drinfeld theory.*
YAMS Seminar,
Università La Sapienza, Roma, Italy.
- May 2023  *The quest for a functional equation for L -functions in Drinfeld theory.*
BabyG Seminar,
Università degli Studi di Pisa, Pisa, Italy.

Congresses and conferences attended



- 23–26 Jul. 2024  Second UMI-AMS Joint Meeting, Palermo.
- 17–19 Apr. 2024  The 8th mini symposium of the Roman Number Theory Association, Rome.
- 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.

Teaching activity

University


- 2022  Tutor for students of the course "Elementi di Analisi Reale".
Employer: **Università degli Studi di Roma, Mathematics Department**.
Supervisors: Emanuele Spadaro, Eugenio Montefusco.
- 2021  Assistant for the correction and evaluation of written exams of the course "Analisi Matematica A".
Employer: **Università degli Studi di Pisa, Physics Department**.
Supervisor: Ferruccio Colombini.
- 2020  Tutor for students of the course "Aritmetica".
Employer: **Università degli Studi di Pisa, Mathematics Department**.
Supervisor: Ilaria Del Corso.

Mathematical Olympiad


- 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.
Employer: **Unione Matematica Italiana**.


Awards and scholarships


Scholarships


2016–2021  Full 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 (A2) and German (A1).

Coding  Python, SageMath, C++, SQL, \LaTeX , ...

Misc.  Academic research, teaching.