

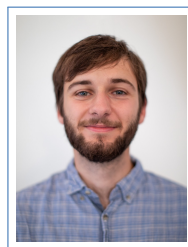
# Gilles Felber

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Nationality: Swiss

14.10.1995



**Research interests** Analytic number theory, automorphic forms,  $L$ -functions, spectral theory, trace formulae, Siegel modular forms, restriction problems, exponential sums

## Employment

- 2024 – 2026 **Postdoctoral Researcher**, *Alfréd Rényi Institute of Mathematics*, in the group of Péter Maga
- 2021 – 2024 **Ph.D. in Mathematics**, *University of Bonn & Max Plank Institut for Mathematics*, supervised by Prof. Dr. Valentin Blomer
- Feb. – May 2023 **Research stay in Paris**, *Université Sorbonne Paris Nord (Paris 13)*, hosted by Prof. Dr. Farrell Brumley, GlobalMathExchange program

## Education

- 2018 – 2020 **Mathematics Master**, *Swiss Federal Institute of Technology in Zürich (ETHZ)*
- 2014 – 2017 **Mathematics Bachelor**, *Swiss Federal Institute of Technology in Lausanne (EPFL)*
- 2011 – 2014 **High School Diploma**, *Denis-de-Rougemont High School*, Neuchâtel  
Mention good

## Projects and articles

- PhD Thesis **Restriction Norms for Siegel Modular Forms**, supervised by Prof. Dr. V. Blomer, University of Bonn
- Article **A Restriction Norm Problem for Siegel Modular Forms**, supervised by Prof. Dr. V. Blomer, University of Bonn, preprint: arXiv:2308.13493
- Master Thesis **The sphere packing problem in dimensions 8 and 24**, supervised by Prof. Dr. Ö. Imamoglu, ETHZ
- Semester Paper **The Mordell-Weil theorem and the Birch and Swinnerton-Dyer conjecture**, supervised by Prof. Dr. E. Kowalski, ETHZ
- Bachelor Thesis **Le théorème de densité de Chebotarev**, supervised by Dr. R. M. Nunes and Prof. Dr. P. Michel, EPFL  
Translation: the Chebotarev density theorem
- High School Thesis **Étude des pavages du plan par la théorie des groupes**, supervised by Dr. A. Gournay as part of the scientific vocations program (PROVOC), Neuchâtel University  
Translation: study of the tessellations of the plane by the group theory

## Talks given

- Sept. 2025 **Analytic Number Theory and Automorphic Forms**, conference, Lille
- Sept. 2025 **International Workshop on Automorphic Forms**, workshop, SwissMAP Research Station, Les Diablerets
- Nov. 2024 **Number Theory Seminar**, seminar, Korea Institute for Advanced Study
- Oct. 2024 **Automorphic Forms Seminar**, seminar, Alfréd Rényi Institute of Mathematics

- Aug. 2024 **Automorphic Forms in Budapest**, *conference*, Alfréd Rényi Institute of Mathematics, speed talk
- May 2024 **Number Theory Seminar**, *seminar*, University of Cologne
- Jan. 2024 **Drafting Workshop in Discrete Mathematics and Probability 2024**, *workshop*, Alfréd Rényi Institute of Mathematics
- Dec. 2023 **Number Theory Seminar**, *online seminar*, University of Copenhagen
- Sept. 2023 **Young Number Theorists**, *conference*, Max Planck Institut for Mathematics, speed talk
- June 2023 **ArStAFANT Workshop**, *conference*, EPFL, Lausanne
- May 2022 **ENTR seminar**, *online seminar*, Technical University of Darmstadt

## Teaching

- Summer 2025 **Complex functions**, Budapest semesters in mathematics
- Winter 2022 **Analytic number theory**, *tutor*, Prof. Dr. V. Blomer, University of Bonn
- Summer 2022 **Algebra I**, *tutor*, Prof. Dr. V. Blomer, University of Bonn
- 2016 – 2017 **Mathematics and physics**, *tutor*, EPFL  
Tutoring training workshop

## Other activities

- May 2023 **Analysis of Automorphic Forms and L-Functions in Higher Rank**, *seminar*, Oberwolfach Research Institute for Mathematics
- May 2023 **Group Actions and Harmonic Analysis in Number Theory**, *workshop*, Oberwolfach Research Institute for Mathematics  
Video conference assistant
- March 2022 **FANTASY - Young Scholars in the Analytic Theory of Numbers and Automorphic Forms**, *conference*, University of Bonn, co-organized with E. Assing, J. Li, B. Michels and R. Toma
- May – Aug. 2021 **Harmonic Analysis and Analytic Number Theory**, *trimester program*, Hausdorff Research Institute for Mathematics, Bonn
- 2014 **Swiss Mathematics Olympiads**, *bronze medal*
- 2010 – 2020 **International competition for mathematical and logical games (FSJM)**, *participation in several Swiss finals*

## Languages

- French Mother tongue
- English Fluent, writing and speaking
- German Fluent, writing and speaking. C1 certificate