

Gilles Felber

Research Analytic number theory, Automorphic forms, *L*-functions, Spectral theory of arithinterests metic manifolds, Siegel modular forms, Sub-convexity problems, Restriction norms

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14.10.1995

Education

- 2021 2024 **PhD in Mathematics**, University of Bonn & Max-Plank Institut for Mathematics, supervised by Prof. Dr. Valentin Blomer
- Feb. May Research stay in Paris, Université Sorbonne Paris Nord (Paris 13), hosted by
 2023 Prof. Dr. Farrell Brumley, GlobalMathExchange program
- 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 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 The Mordell-Weil theorem and the Birch and Swinnerton-Dyer conjecture, Paper supervised by Prof. Dr. E. Kowalski, ETHZ
 - Bachelor Le théorème de densité de Chebotarev, supervised by Dr. R. M. Nunes and Thesis Prof. Dr. P. Michel, EPFL

Translation: the Chebotarev density theorem

High School Étude des pavages du plan par la théorie des groupes, supervised by Dr. A. Thesis Gournay as part of the scientific vocations program (PROVOC), Neuchâtel University Translation: study of the tessellations of the plane by the group theory

Teaching

- Winter 2022 Analytic number theory, *tutoring*, Prof. Dr. V. Blomer, University of Bonn
- Summer 2022 Algebra I, tutoring, Prof. Dr. V. Blomer, University of Bonn
 - 2016 2017 Mathematics and physic tutoring, EPFL Tutoring training workshop

Visited conferences and talks given

- May 2024 **Number Theory Seminar**, *seminar*, University of Cologne Talk given
- Dec. 2023 **Number Theory Seminar**, *online seminar*, University of Copenhagen Talk given: A restriction norm problem for Siegel modular forms
- Oct. 2023 Panorama of Mathematics II, conference, University of Bonn

- Sept. 2023 Young Number Theorists, conference, Max-Planck Institut for Mathematics Speed talk given: Arithmetic Quantum Unique Ergodicity
- June 2023 ArStAFANT Workshop, conference, EPFL, Lausanne Talk given: L^2 -restriction norm of Siegel modular forms
- 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
- Sept. 2022 Number Theory Days, conference, EPFL, Lausanne
- Aug. 2022 Automorphic Forms Summer School, summer school, Rényi Institute, Budapest
- Aug. 2022 Masterclass: Relative trace formulae, summer school, University of Copenhagen
- June 2022 Die Riemannsche Vermutung, public conference, Landesmuseum Bonn
- June 2022 **59th Seminar Aachen-Bonn-Köln-Lille on Automorphic Forms**, *conference*, University of Bonn
- May 2022 **ENTR seminar**, *online seminar*, Technical University of Darmstadt Talk given: A restriction norm on Siegel modular forms
- Sept. 2021 Women in automorphic forms, conference, University of Bielefeld
- May Aug. Harmonic Analysis and Analytic Number Theory, trimester program, Haus-2021 dorff Research Institute for Mathematics, Bonn
- Oct. 2019 Number Theory Days, conference, ETH, Zurich
- Sept. 2019 Topics in Rational and Integral Points, summer school, Basel University
- Feb. 2019 Super Strong Approximation in Groups, summer school, Hebrew University of Jerusalem

Other mathematics activities

- Winter 2023 Equidistribution: the modern ergodic method, *learning seminar*, Max-Planck Institut, organized with E. Assing and R. Toma
- March 2022 FANTASY Young Scholars in the Analytic Theory of Numbers and Automorphic Forms, conference, University of Bonn, organized with E. Assing, J. Li, B. Michels and R. Toma
 - 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. B2.1 certificate, ongoing C1 lecture

Civilian service in Switzerland

- 2020 Supervision and animations at the adventure field of Pierrefleur, Fundation for socio-cultural animation in Lausanne, Lausanne
- 2020 Collaboration in the maintenance of nature conservation, Office for the protection of nature of the canton Zürich, Pfäffikon
- 2018 Archaeological digs technician, State of Jura archaeology and paleontology section of the office of culture, Delémont and St-Ursanne

2017 - 2018 Market gardener's helper, Fribourg detention facility, Sugiez
2015 Mason's helper, Association for the protection of dry stone walls, Le Noirmont